Asn Ser Ser Leu Ala Ile 560 Thr Ser 575 Ser Glu
Ala Ile 560 Thr Ser 575
560 Thr Ser 575
575
Ser Glu
Leu Leu 15
Asp Pro
Asp Pro Gly Ile
Gly Ile
Gly Ile Leu Glr Gln Ser

	(2)	Trib	. RMAT	LICIN	FOR	SEQ	TD 1	√O: ∠	154:									
5				(A) L B) T D) T	ENGT: YPE : OPOL	H: 2 ami: OGY:	l am no a lin	ino a cid ear	acid		: 254	1:					
10	Met 1			His										Xaa	Phe 15	Val		
	Phe	Val	Xaa	Lys 20	Xaa													
15																		
	(2)	IIF	ORMAT	rion	FCR	SEQ	ID N	JO: 2	255:									
20				(A) L B) T D) T	ENGT YPE: OPOL	H: 3 ami OGY:	l am no a lin	ino d cid ear	acid:		: 259	ō:					
25	Met 1	Asn	Asp	Asn	Ser 5	Pro	Asn	His	Ser	Ser 10	Ser	Tyr	Leu	Pro	Leu 15	Pro		
30	Leu	Thr	Ile	Val 20	Ile	Leu	Gln	Thr	Gly 25	His	Lys	Gly	Thr	Leu 30	Xaa			
	(2)	INF	ORMA	rion	FOR	SEQ	ID 1	vo: 1	256:									
35			(i)	(ENGT YPE :	H: 2 ami	19 a no a	mino cid		ds							
40			(xi)	SEQ	UENC:	E DE	SCRI	PTIO	t1: S	EQ II	D NO	: 25	5 :					
	Met 1	His	Phe	Leu	Phe 5	Arg	Phe	Ile	Val	Phe 10	Phe	Tyr	Leu	Trp	Gly 15	Leu		
45	Phe	Thr	Ala	Gln 20	Arg	Gln	Lys	Lys	Glu 25	Glu	Ser	Thr	Glu	Glu 30	Val	Lys		
	Ile	Glu	Val 35	Leu	His	Arg	Pro	Glu 40	Asn	Cys	Ser	Lys	Thr 45	Ser	Lys	Lys		
50	Gly	Asp 50		Leu	Asn	Ala	His 55	Tyr	Asp	Gly	Tyr	Leu 60	Ala	Lys	Asp	Gly		
55	Ser 65	Lys	Phe	Tyr	Cys	Ser 70	Arg	Thr	Gln	Asn	Glu 75	Gly	His	Pro	Lys	Trp 80		
	Phe	Val	Leu	Gly	Val 85	Gly	Gln	Val	Ile	Lys 90	Gly	Leu	Asp	Ile	Ala 95	Met		 -
60	Thr	Asp	Met	Cys 100	Pro	Gly	Glu	Lys	Arg 105	Lys	Val	Val	Ile	Pro	Pro	Ser		

	PHE	Ala	Тут 115	Gly	Lys	Glu	Gly	Tyr 120	Ala	Glu	Gly	Lys	Ile 125	Pro	Pro	Asp
5	Ala	Thr 130	Leu	Ile	Phe	Glu	Ile 135	Glu	Leu	Tyr	Ala	Val 140	Thr	Lys	Gly	Pro
10	Arg 145	Ser	Ile	Glu	Thr	Phe 150	Lys	Gln	Ile	Asp	Met 155	Asp	Asn	Asp	Arg	Gln 160
	Leu	Ser	Lys	Ala	Glu 165	Ile	Asn	Leu	Tyr	Leu 170	Gln	Arg	Glu	Phe	Glu 175	Lys
15	Asp	Glu	Lys	Pro 130	Arg	Asp	Lys	Ser	Tyr 185	Gln	Asp	Ala	Val	Leu 190	Glu	Asp
	Ile	Phe	Lys 195	Lys	Asn	Asp	His	Asp 200	Gly	Asp	Gly	Phe	11e 205	Ser	Pro	Lys
20	Glu	Tyr 210	Asn	Val	Тут	Gln	His 215	Asp	Glu	Leu	Xaa					
25	(2)	INFO	ORMAT	CION	FOR	SEQ	ID 1	10: I	257 :							
			(i) S			CHAI ENGT:					c					
											.,					
30			(xi)	•	B) T D) T	YPE: OPOL E DE:	OGY :	no a lin	cid ear			: 251	7 ;			
	Met 1		(xi) Val) SEQI	B) T D) T JENCI	OPOL	OGY: SCRI:	no a lin PTIO	cid ear N: SI	EQ II	0И С			Phe	Val 15	Leu
30 35	1	Trp		SEQUI	B) T D) T UENCI Arg 5	OPOL E DE: Val	OGY: SCRII Phe	no a lin PTION Gln	cid ear N: SI Lys	EQ II Thr 10	D NO Phe	Leu	Phe		15	
	l Phe	Trp	Val	(SEQUAL SEQUAL SEQUENTS SEQUEN	B) T D) T UENCI Arg 5 His	CPOL E DES Val Cys	OGY: SCRII Phe Ile	no a lin PTION Gln Ser	cid ear N: SI Lys Asp 25	EQ II Thr 10 Lys	D NO Phe Phe	Leu Gly	Phe Cys	Leu 30	15 Trp	His
35	l Phe	Trp Trp Cys	Val Ser Met	(SEQUAL SEQUAL SEQUENTS SEQUEN	B) T D) T UENCI Arg 5 His	CPOL E DES Val Cys	OGY: SCRII Phe Ile	no a lin PTION Gln Ser Asp	cid ear N: SI Lys Asp 25	EQ II Thr 10 Lys	D NO Phe Phe	Leu Gly	Phe Cys Ser	Leu 30	15 Trp	His
35	l Phe Val Leu	Trp Trp Cys Xaa 50	Val Ser Met 35	(SEQUAL)	B) T D) T DUENC Arg 5 His Arg	OPOL: E DE: Val Cys	OGY: SCRI: Phe Ile Gly	no a line PTION Gln Ser Asp 40	cid ear N: SI Lys Asp 25 Xaa	EQ II Thr 10 Lys	D NO Phe Phe	Leu Gly	Phe Cys Ser	Leu 30	15 Trp	His
35 40 45	l Phe Val Leu	Trp Cys Xaa 50	Val Ser Met	(SEQUENTE S	B) T D) T UVENCI Arg 5 His Arg FOR	CPOLICE CEST CONTROL C	OGY: SCRI: Phe Ile Gly ID: RACTE	no au line PTION Gln Ser Asp 40	cid ear N: SI Lys Asp 25 Xaa	Thr 10 Lys Asn	D NO Phe Phe Cys	Leu Gly	Phe Cys Ser	Leu 30	15 Trp	His
35	l Phe Val Leu	Trp Cys Xaa 50	Val Ser Met 35	(SEQUIDE SEQUIDE CONTROL CONT	B) T D) T UVENCE Arg 5 His Arg FOR ENCE A) L B) T D) T	CPOLICE DESCRIPTION OF THE PROPERTY OF THE PRO	OGY: SCRI: Phe Ile Gly ID N RACT! H: 1 ami: OGY:	no au line PTION Gln Ser Asp 40 C: 2	cid ear N: SI Lys Asp 25 Xaa YS8: mino cid ear	Thr 10 Lys Asn	D NO Phe Phe Cys	Leu Gly	Phe Cys Ser	Leu 30	15 Trp	His

	Leu	Cys	Asp 35	Leu	Pro	Phe	Ser	Leu 40	pro	Ser	Phe	Pro	Gly 45	Gln	Ala	Arg
5	Arg	Gly 50	Gly	Ala	Glu	Lys	Gln 55	Gly	Ala	Glu	Gly	Arg 60	Gly	Leu	Gln	Val
	Lys 65	Pro	Arg	Gly	Gln	Arg 70	Thr	Phe	Gln	Val	Ser 75	Arg	Thr	Ala	Pro	Ala 80
10	Ala	Pro	Arg	Ser	Arg 85	Gln	Pro	Arg	Pro	Pro 90	Ala	Ala	Leu	Pro	Ala 95	Leu
15	Glγ	Phe	Gly	Gly 100	_	Gly	Val	Ala	Lys 105	Gly	Arg	Phe	Leu	Cys 110	Phe	Trp
	Cys	Leu	Tyr 115	Met	Leu	Arg	Ile	Asp 120	Gln	Хаа						
20	(2)	INF	ORMA:	TION	FOR	SEQ	ID:	: OM	259:							
25				;	A) I B) T D) T	.ENGT 'YPE : 'OPOL	H: 8 ami OGY:	8 ar no a lir	uino scid sear	: acid EQ I		v: 25	9 :			
30	Met 1		Ala	. Phe	Cys 5		Leu	Leu	Leu	Gln 10		Gln	Ser	Leu	Leu 15	
	Arg	Thr	Met	Ala 20		Pro	Gln	Asp	Ser 25		. Arg	Pro	Gly	Glu 30	Glu	Asp
35	Glu	ı Gly	Met 35		Leu	Leu	Gln	Thr 40		Asp	Ser	Met	Ala 45		Gly	Ala
40	Arg	Pro 50		/ Ala	. Xaa	. Arg	Gly 55		, Ala	Arg	Trp	Gly 60		Ala	Tyr	Thr
	Let 65		His	: Asr	Pro	Thr 70		Glr	ı Val	. Phe	Arg 75		Thr	Ala	Leu	80
45	G13	/ Ala	a Asr	ı Gly	Ala 85		Pro	Xaa	t							
50	(2)	INF	FORMA	1OITA	1 FOR	R SEÇ) ID	NO:	260 :							
			(i)	SEÇ	(A) (B)		TH: : am	26 a ino	mino acid	S: aci	ds					
55	34	- 'F 1			QUEN	CE DE	ESCR:	IPTI	ON: :	SEQ :				- Dh		, tou
		I IIe	e Gir	n Val	l Ser		. Pro) Let	ı Let	ı Thi		e met	. 116	e Pn∈	15	ı Leu S
60	T_{Y}	r Lei	ı Glr	n Ile	e Gly	Pro	Gl	Ly:	s Lev	ı Xaa	a.					

20

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5	(3) INFORMATION FOR SEQ ID NO: 261:
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 29 amino acids (B) TYPE: amino acid (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 261:
15	Met Leu Leu Asp Pro Phe Ile Leu Leu Phe Cys Leu Phe Ser Thr Ala 1 5 10 15
	Ala Gln Ser Cys Leu Glu Phe Ile Tyr Ile Gln Phe Xaa 20 25
20	(2) INFORMATION FOR SEQ ID NO: 262:
25	(i) SEQUENCE CHARACTEFISTICS: (A) LENGTH: 44 amino acids (B) TYPE: amino acid (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 262:
30	Met Lys Phe Leu Ser Ile Leu Leu Asp Asp Asn Asn Phe Xaa Leu Met 1 5 10 15
	Leu Met Leu Ala Pro Phe Gly Cys Leu Ala Phe Glu Arg Ser Met Lys 20 25 30
35	Met Arg Asn Gly Ala Leu Gly Leu Glu Glu Val Xaa 35 40
40	(2) INFORMATION FOR SEQ ID NO: 263:
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 363 amino acids
45	(B) TYPE: amino acid (D) TOPOLXXV: Linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 263.
	Met Arg Thr Leu Phe Asn Leu Leu Trp Leu Ala Leu Ala Cys Ser Pro

 60° . Arm Ser Tyr Cys Ser Ala Lys Ala Arm Asp Ari Hos Poe Ala Siv Asp

1 5 10 15

Val His Thr Thr Leu Ner Lys Ser Asp Ala Lys Lys Ala Ala Ber Lys 20 25 30

	65					70					75					80
5	Val	Leu	Gly	Tyr	Val 85	Thr	Pro	Trp	Asn	Ser 90	His	Gly	Tyr	App	Vā1 95	Thr
	Lys	Val	Phe	Gly 100	Ser	Lys	Phe	Thr	Gln 105	Ile	Ser	Pro	Val	Trp 110	Leu	Gln
10	Leu	Lys	Arg 115	Arg	Gly	Arg	Glu	Met 120	Phe	Glu	Val	Thr	Gly 125	Leu	His	Asp
	Val	Asp 130	Gln	Gly	Trp	Met.	Arg 135	Ala	Val	Arg	Lys	His 140	Ala	Lys	Gly	Leu
15	His 145	lle	Val	Pro	Arg	Leu 150	Leu	Phe	Glu	Asp)	Trp 155	Thr	Tyr	Asp	qzA	Phe 160
20	Arg	Asn	Val	Leu	Asp 165	Ser	Glu	qaA	Glu	Ile 170	Glu	Glu	Leu	Ser	Lys 175	Thr
_ ~	Val	Val	Gln	Val 130	Ala	Lys	Asn	Gln	Ніs 135	Phe	Asp	Gly	Phe	Val 190	Val	Glu
25	Val	Trp	Asn 195	Gln	Leu	Leu	Ser	Gln 200	Lys	Ara	Val	Thr	Asp 205	Gln	Leu	Gly
	Met	Phe 210	Thr	His	Lys	Glu	Phe 215	Glu	Gln	Leu	Ala	Pro 220	Val	Leu	Acp	Gly
30	Phe 225	Ser	Leu	M⊕t	Thr	Tyr 230	Asp	Tyr	Ser	Thr	Ala 235	His	Gln	Pro	Gly	Pro 240
35	Asn	Ala	Pro	Leu	Ser 245	Trp	Val	Arg	Ala	Cys 250	Val	Gln	Val	Leu	Asp 255	Pro
	Lys	Ser	Lys	Trp 260	Arg	Ser	Lys	Ile	Leu 265	Leu	Gly	Leu	Asn	Phe 270	Tyr	Gly
40	Met	Asp	Туr 275	Ala	Thr	Ser	Lys	Asp 280	Ala	Arg	G1u	Pro	Val 285	Val	Gly	Ala
	Arg	Tyr 290	Ile	Gln	Thr	Leu	Lys 295	Asp	His	Arg	Pro	Arg 300	Met	Val	Trp	Asp
45	Ser 305	Gln	Xaa	Ser	Glu	His 310	Phe	Phe	Glu	Tyr	Lys 315	Lys	Ser	Arg	Ser	Gly 320
50	Arg	His	Val	Val	Phe 325	Tyr	Pro	Thr	Leu	Lys 330	Ser	Leu	Gln	Val	Arg 335	Leu
	Glu	Leu	Ala	Arg 340	Glu	Leu	Gly	Val	Gly 345	Val	Ser	Ile	Trp	Glu 350	Leu	Gly
55	Gln	Gly	Leu 355	Asp	Tyr	Phe	Tyr	Asp 360	Leu	Leu	Xaa					

(2) INFORMATION FOR SEQ ID NO: 264:

N + 1 + A + + A

			(1)				RACT H: 1			: aci	ds					
							amı OGY:									
5			(xi)							EQ I	D 110	: 26	4:			
	Leu 1		Thr	Lys	Ile 5	Leu	Val	Lys	Pro	Asp 10	Arg	Thr	Phe	Glu	11e 15	Lyp
10	Ile	Gly	Gln	Pro 20	Thr	Val	Ser	Γ_{I} T	Phe 25	Leu	Lys	Ala	Ala	Ala 30	Gly	Ile
15	Glu	Lys	Gly 35	Ala	Arg	Gln	Thr	Gly 40	Lys	Glu	Val	Ala	Gly 45	Leu	Val	Thr
•	Len	Lys Su	His	Val	Tyr	Glu	Ile 55	Ala	Arg	Ile	Lys	Ala 60	Gln	Asp	Glu	Ala
20	Phe 65		Lou	Gln	Asp	Val 70	Pro	ren	Ser	Ser	Val 75	Val	Mg	Sor	Il≑	Ile 80
	Gly	Ser	Ala	Arg	Ser 85	Leu	Gly	Ile	Arg	Val 90	Val	Lys	Asp	Leu	Ser 95	Ser
25	Glu	Glu	Leu	Ala 100	Ala	₽he	Gln	Lys	Glu 105	Arg	Ala	Ile	Phe	Leu 110	Ala	Ala
30	Gln	Lys	Glu 115	Ala	Asp	Leu	Ala	Ala 120	Gln	Glu	Glu	Ala	Ala 125	Lys	Lys	Хаа
35	(2)	1111	Orman	rich	FOR	SEQ	1 DI	NO: 2	265:							
40			(i) :	(. (A) L B) T D) T	FINGT YPE: CPCL	H: 5 ami: CGY:	4 am no a lin	ino cid ear	acid		: 26:	5 :			
45	M⊖€ 1	Leu	Letu	Gln	fle 5	His	Pro	Len	Lerit	Pr.:	Ser	Pro	Thr	Tle	Pro 15	Ніз
	Tle	Leu	Leu	L@u 20	Phe	Leu	Tit	Pro	Thr 25	Phe	Ser	Ile	Leu	Glu 30	His	Ser
50	Cys	Ser	Tyr 35	Сув	Ile	Glu	Tyr	Leu 40	Trp	Val	Cys	L≎u	Leu 45	Phe	Сув	Leu
	··· t	1 - 12	Trn	₽ Þe+	Ten	Хаа										
			EMA	:: ::	I I	. F.	:: :		. • •							
60			11:	TEÇLI	THE	HAI	PACTE	FIE	n.							

				(B) 1	TPE:	ami	ino e		acid	ls							
5			(xi)			COPOL E DE				EQ I	D NO): 26	б:					
-'	Met 1		Leu	Trp	Cys 5		Gly	Asp	Val	Cys 10	Ser	Gly	Leu	. Ger	Ser 15	Leu		
10	Leu	Ser	Leu	Суs 20	Val	Cys	Cys	Val	Val 25	Leu	Ala	Val	Cys					
15	(2)	INF	ORMA'	TION	FOR	SEQ	ID	NO:	2€7:									
			(i)	(A) L		'H: 2	:6 am	TICS lino lcid		ls							
20			(xi)			OPOL E DE				EÇ I	D N O	: 26	7 :					
	Glu 1	Gly	Leu	Arg	Leu 5	Leu	Leu	Ser	Leu	Pro 10	Ala	Ala	Leu	Pro	Arg 15	Ser		
25	Cys	Cys	His	Pro 20	Arg	Trp	Leu	Pro	Va1 25	Xaa								
30	(2)	INF	ORMA:	IION	FOR	SEQ	ID I	NO:	268:									
35				(A) L B) T D) T	ENGT YPE: OPOL	H: 2 ami CGY:	21 a no a lin	ear	aci		: 26	0.					
	Met 1	Phe												Pro	Gly 15	Asn		
40	Lys	Pro	Glu	Leu 20		Glu	Glu	Val	Lys 25		Tyr	Lys	Asn	Ala 30		Glu		
45	Arg	Glu	Lys 35	Tyr	Asp	Asn	Met	Ala 40	Glu	Leu	Phe	Ala	Val 45	Val	Lys	Thr		
	Met	Gln 50	Ala	Leu	Glu	Lys	Ala 55	Tyr	Ile	Lys	Asp	Cys 60	Val	Ser	Pro	Ser		
50	Glu 65	Туг	Thr	λla	Ala	Cys 70	3er	Arg	Leu	Leu	Val 75	Gln	Tyr	Lys	Ala	Ala 80		
55	Phe	Arg	Gln	Val	Gln 85	Gly	Ser	Glu	Ile	Ser 90	Ser	Ile	Asp	Glu	Phe 95	Cys		
	Arg	Lys	Phe	Arg 100	Leu	Asp	Cys	Pro	Leu 105	Ala	Met	Glu	Arg	Ile 110	Lys	Glu		
60	Asp	Arg	Pro 115	Ile	Thr	Ile	Lys	Asp 120	Asp	Lys	Gly	Asn	Leu 125	Asn	Arg	Cys		

	Ile	Ala 130	Asp	Val	Val	Ser	Leu 135	Phe	Tle	Thr	Val	Met 140	qaA	Lys	Leu	Arg
5	Leu 145	Glu	Ile	Arg	Ala	M∈t 150	Asp	Glu	He	Gln	Pro 155	Asp	Leu	Arg	Jlu	Lou 160
10	Met	Ğlu	Thr	Met	His 165	Arg	Met	Šer	His	Leu 170	Pro	Pro	Asp	Phe	Glu 175	Gly
	Ara	Gln	Thr	Val 180	Ser	Gln	Trp	Leu	Gln 185	Thr	Leu	Ser	Gly	Met 190	Ser	Ala
15	Ser	Asp	Glu 195	Leu	Asp	Asp	Ser	Gln 200	Val	Arg	Gln	Met	Leu 205	Phe	Asp	Leu
	ölu	Ser 210	Ala	Tyr	Asn	Ala	Phe 215	Asn	Arg	Phe	Leu	His 220	Ala			
20	(2)	11150)emar	rton	E-/JP	SEO	TD I	VO - 3	269.							
25			(1)	SEQU)))	EIKE A) L P) T D) T	CHA ENGT YPE:	RACT H: 3 ami OGY:	ERIS ami no a lin	rics no a cid ear	cids		. 26	2			
30	Met 1	Lyb		SEQ	OENC	E DE	5/1/1	F110:	N. 3	EQ I	D 140	. 20	<i>J</i> .			
35	(2)	INE	ORMA	riôn	FOR	SEQ	ID	NO: I	270:							
40				į	A) L B) T D) T	ENGT YPE: YPOL	H: 4 ami CGY:	9 am no a lin	ino cid ear	acid		: 27	0 :			
45	Met 1	Gln	Ala	Pro	Phe S		His	Phe	Ser	Phe 10	Arg	Mat	Phe	Ser	Asn 15	Leu
7.2)J.	Cyc	Fhe	000 00	App	Phe	Gln	Pro	Asn 25	Ile	ಶಿಲಭ	Pro	Cys	Prō 30	Leu	Cys
50	His	Cys	Ile 35		Pro	Kaa	H15	His 40	His	Val	Phe	Leu	Leu 45	Leu	Ala	Val
	Жаа															

(1) CHIMENUS CHARACTERISTICS:
(A) IBNOTH (1) emin avido

60

				(B) T	YPE:	ami	no a	cid							
							OGY :									
			(xi)	SEQ	JENC!	E DE:	SCRI	PTIC	1: S	EQ II	D NO	: 27	1:			
5	Met 1		Leu	Val	Thr 5	Met	Phe	qzA	Lys	Leu 10	Ser	Arg	Asn	Arg	Val 15	Ile
10	Gln	Pro	Met	Gly 20	Met	Ser	Pro	Arg	Gly 25	His	Leu	Thr	Ser	Leu 30	Gln	Asp
10	Ala	Met	Cys 35	Glu	Thr	Met	Glu	Gln 40	Gln	Leu	Ser	Ser	Asp 45	Pro	Asp	Ser
15	Asp	Pro 50	Asp	Xaa												
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 32 amino acids															
25	(i) SEQUENCE CHARACTERISTICS:															
			(14)	اليلانات	ا ۱۳۵۰ ب	L DE.	♪ , □K.↓.		,v. 5.	LŲ L	D 140	. 41	٠.			
	Met 1		Val	Gly	Glu 5	Ala	Val	Phe	Val	Pro 10	Leu	Gln	His	Pro	Pro 15	Leu
30	Leu	His	Gly	Ser 20	Pro	Ile	Pro	Lys	Leu 25	Leu	Pro	Gly	Pro	Leu 30	Leu	Xaa
35																
	(2)	INF	orma'	TION	FOR	SEQ	IÔ I	NO: 2	273:							
40				(A) L B) T D) T	ENGT YPE: OPOL	H: 5 ami CGY:	7 am no a lin	ino cid ear	acid		: 27	3:			
45			(254/	ريدد	J				د	- √ 1.	J 140	. 41				
	Met 1		Gly	Cys	His 5	Arg	Arg	Lys	Arg	Leu 10	His	Leu	Cys	Lys	Thr 15	Ile
50	Tyr	Leu	Leu	Trp 20	Phe	Val	Phe	Ser	Phe 25	Leu	Leu	Ser	Asn	Glu 30	Val	Val
	Ser	Ser	His 35	Trp	His	Ile	Leu	Arg 40	Ala	Val	Gln	Ile	Ile 45	Cys	Thr	Leu
55	Phe	His 50		Xaa	Ile	Ser	Ala 55	Phe	Xaa							

 $60\,$ (2) information for seq id No: 274:

No. of the A

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 22 amino acids: (B) TYPE: amino acid (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 274:
10	Met Gly Trp Val Ser Ser Pro His Val Lys Arg Arg Glu Cys Val Leu 1 5 10 15
15	Lys Lys Pro Phe Xaa 20
	(2) INFORMATION FOR SEQ ID NO: 275:
20	(1) SEQUENCE CHARACTERISTICS: (A) LENGTH, 51 amino acids (B) TYPE: amino acid (D) TOPOLOCY: linear (X1) SEQUENCE DESCRIPTION: SEQ ID NO: 275:
25	Met Phe Asn Phe Phe Lys Asn Pro Leu Leu Thr Cys Leu Phe Ile Ser 1 5 10 15
	Cys Tyr Leu Tyr Leu Ser Leu Leu Val Asn Lys Val Leu Phe Ala Glu 20 25 30
30	Glu Gly Leu Cys Cys Thr Tyr Cys Thr Thr Ser Asn Thr Gly Glu Gly 35 40 45
35	Gly Val Xaa 50
	(2) INFOEMATION FOR SEQ ID NO: 276:
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 2 amino acids (B) TYPE: amino acid (D) TOPOLOGY: linear
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 276)
	Met Maa 1
50	(2) INFORMATION FOR SEQ ID NO: 277:
	a constant and the
	gardina a servición de la constantida del constantida de la constantida de la constantida del constantida de la constantida del constantida de la constantida de la constantida del constantid
60	Met her bys Thr lie her Thr Val Val lie lie lie Ala A.a Un Thr

	Thr	Arg	Thr	Thr 20	Gly	He	Fro	Lys	Asn 25	Ala	Pro	Gly	Pro	Ala 30	Pro	Leu
5	Cys	Ala	Pro 35	Arg	Ser	Pro	Arg	Leu 40	Ph⊖	Len	Gln	Xaa	Tyr 45	Arg	Gly	Pro
10	Asn	Gly 50	Arg	Pro	Ala	Hıs	Pro 55	Phe	Leu	Gly	Pro	Ser 60	App	Leu	Asp	Thr
	Ser 65	Хаа														
15	(2)	I!JF	TRMAT	noin	FOR	SEQ	ID I	NO: 2	278:							
20			(1)	(A) L	ENGT	H: 2	ERIS' 57 a no a	mino		ds					
			(xi)					lin PTIO		EQ II	ON C	: 27	8 :			
25	Met 1	Lēu	Gly	Ala	Lys 5	Pro	His	Trp	Leu	Pro 10	Gly	Pro	Leu	His	Ser 15	Pro
	Gly	Leni	Pro	Leu 20	Val	Leu	Val	Leu	Leu 25	Ala	Leu	Gly	Ala	Gly .30	Trp	Ala
30	Gln	Glu	Gly 35	Ser	Glu	Pro	Val	Leu 40	Leu	Glu	Gly	Glu	Cys 45	Leu	Val	Val
35	Cyrs	G1u 50	Pro	Gly	Arg	Ala	Ala 55	Ala	Gly	Gly	Pro	Gly 60	Gly	Ala	Ala	Leu
	Gly 65	Glu	Ala	Pro	Pro	Gly 70	Arg •	Val	Ala	Phe	Хаа 75	Ala	Val	Arg	Ser	His 80
40	His	His	Glu	Pro	Ala 85	Gly	Glu	Thr	Gly	Asn 90	Gly	Thr	Ser	Gly	Ala 95	Ile
	Тут	Phe	Asp	Gln 100	Val	Leu	Val	Asn	Glu 105	Gly	Gly	Gly	Phe	Asp 110	Arg	Ala
45	Ser	Gly	Ser 115	Phe	Val	Ala	Pro	Val 120	Arg	Gly	Val	Tyr	Ser 125	Phe	Arg	Phe
50	His	Val 130	Val	Lys	Val	Tyr	Asn 135	Arg	Gln	Thr	Val	Gln 140	Val	Ser	Leu	Met
	Leu 145	Asn	Thr	Trp	Pro	Val 150	Ile	Ser	Ala	Phe	Ala 155	Asn	Asp	Pro	Asp	Val 160
55	Thr	Arg	Glu	Ala	Ala 165	Thr	Ser	Ser	Val	Leu 170	Leu	Pro	Leu	Asp	Pro 175	Gly
	Asp	Arg	Val	Ser 180	Leu	Arg	Leu	Arg	Arg 185	Gly	Xaa	Ser	Thr	Gly 190	Trp	Leu
60	Glu	Ile	Leu	Lys	Phe	Leu	Trp	Leu	Pro	His	Leu	Pro	Ser	Leu	Lys	Asp

			195					200					205			
5		3e: 119	leu	Ser	Jer	Tiz	A29 215	113	Gln	Pro	Leu	Thr	Thr	Irhe	Phe	Cys
.'	Pro 225	Leu	leu	Pro	Хаа	1.va 231	Gln	Hia	þys	Gln	Ж.та 235	Жаа	Каа	Ser	Leu	Trp 240
10	Leu	Leu	Ser	His	1.64 245	ine	Ala	Tro	Slu	Pro 250	Val	Pro	Asn	Thr	Gln 255	Val
	Kaa															
15																
	(2)	⊐ . F	OFMAN	TECN	FOR	SEÇ	io:	K: 1	279:							
20			(i) .	<u>t</u> (A) 1 3) T 0) P	ENCT YPE: OP(L	H: 1 amı CGY:	03 a no a lin	mino cid ear	aci		: 27	9.			
25	Met 1	Ala	9mp	Αrq	Ala S	Leg	250	Sly	Ser	Ala 10	Val	Leu	Ala	Ala	Ala 15	Val
30	Phe	Val	Sly	Gly 25	Ala	Val	Ser	der	Pro 25	Leu	Val	Ala	Pro	А¤р 30	Asn	Gly
	Ser	Ser	35 #4	Thr	leu	His	Ser	40 749	Thr	Glu	Thr	Thr	Pro 45	Ser	Pro	Ser
35	Asn	≥ sp 50	-hr	Sly	Act	Gly	Hls 55	Pro	Glu	Tyr	Ile	Ala 60	Tyr	Ala	Leu	Val
	Pro 65		Pha	Phe	Ilə	Mat T:	G'zy	leu	Phe	Gly	Val 75		Ile	Хаа	Pro	Каа 80
40	Хаа	⊠aa	Lys	Lys	Lys 95	Gly	ΤŀŢ	}=====================================	Cys	Thr 30		Glu	Ala	Glu	Gln 95	Asp
45	Il:2	olu	. 1.7212	614 160	Lya	327	Хээ									
	(2)	INF	CFMA	ridn	FOR	SEQ	ID	: XX :	280:							
50			(£)		3) I	.FIKT	14: 3		uino	aci:	is					

Less like too Trp Ara Tor App oin Giy bys oly for Ala Throbyo Tyr 60

	Xaa	
5		
	(2) INFORMATION FOR SEQ ID NO: 281:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 43 amino acids (B) TYPE: amino acid (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 281:	
15	Met Val Leu Gly Leu Leu Leu Leu Leu Xaa Phe Phe Ser Phe Ser Ser 1 5 15	
20	Ser Pro Ser Pro Ser Ser Ser Leu Leu Leu Leu Ser Ser Phe Phe Phe 20 25 30	
	Gin Ser Leu Ala Leu Ser Pro Arg Leu Glu Xaa 35 40	
25	(2) INFORMATION FOR SEQ ID NO: 282:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 amino acids (B) TYPE: amino acid (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 282:	
35	Glu Trp Leu Val Phe Thr Phe Leu Leu Val Phe Gly Ser Pro Leu Gly 1 5 10 15	
	Lys Gly Pro Leu Xaa 20	
40		
	(2) INFORMATION FOR SEQ ID NO: 283:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 70 amino acids (B) TYPE: amino acid (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 283: 	
50	Met Ile Arg Ala Leu Ser Leu Phe Leu Leu Ile Phe Asp Ala Ala Leu 1 5 10 15	
55	Phe Ser Leu Ser Val Phe Val Phe Ile Gly His Leu Leu Pro Met Pro 20 25 30	
-	Lys Gly Thr Gly Leu His Ser Cys Ala Lys His Leu Ile Lys Ser Leu 35 40 45	
60	Lys Glu Asn Val Leu Pro Leu Met Asn Tyr Pro Asp Cys Lys Leu Lys 50 55 60	

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	11e 65	Asn	He	Śer	Pro	Xaa 70										
5																
	(11)	I:TE	OPMA'	ricn	FOR	SEQ	ID !	W: 1	84:							
10				(A) L B) T D) T	ENGT YPE: OPOL	H: 7 ami CGY:	5 am no a lin	ino cid ear	acid		. 28	4 -			
15	Met	Gly	Lys							_				Val	Arg	Ara
	1	,	~,		5	*** ;	.,	*	• • • •	10			., .		15	. 12. 2
20	Leu	Phe	Ser	11e 20	Tyr	Trp	Val	Leu	Ser 25	Thr	Vāl	Pro	Asp	A1.a 30	Val	Gly
	Ser	Arg	Gly 35	Gly	Met	Glu	Glu	Glu 40	Cys	Ser	Arg	Gly	Leu 45	Cys	Cys	Val
25	Ala	Gly 50	Gln	His	Lys	Gln	Ala 55	Lys	Gly	Lys	Arg	Gln 60	Ala	Trp	Asn	Lys
	Gly 65	Gly	Glu	Tyr	Gln	Cys 70	Val	Thr	Tyr	Cys	Xaa 75					
30																
	(2)	INF	ORMA	rton	FOR	SEQ	ID I	NO: 1	285 -							
35				(A) L B) T D) T	ENGT YPE: OPOL	H: 3 ami OGY:	3 am no a lin	ino cid ear	acid		: 28	5:			
40	Met 1	Pro	Ala	Leu	Val 5	Thr	Leu	Leu	Leu	Leu 10	Phe	Pro	Leu	Leu		Leu
		1 , ,	21.5	0		Ti.e	** 1	M-F	Norma		Livo	Mare	-C1.,	> ~ ~	15	mb -
45	riec	(11.61	Ala	10	- À:2	n.b	v.1L	Mec	25	C. y Co	£.11)	Merc	7,7 L L	30	110	LIL
	Kaa															
50																
.,(,	(2)	INF	OPMA'	ricn	FOR	SEQ	ID	II÷: ∶	286:							
						***	•		***							
						. 9			. •	. 8						
7.00	114	Ala	1 0	T:p	Hy	ten	Esta.	Lys	i en		Leni	1 - 1	L, exi	Ala		Fh→
60	:				4					10					1.5	

Xaa 5 (2) INFOFMATION FOR SEQ ID NO: 287: (1) SEQUENCE CHARACTERISTICS: 10 (A) LENGTH: 17 amino acids (B) TYPE: amino acid (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 287: 15 Met Gln Gln Lys Gln Lys Lys Ala Asn Glu Lys Lys Glu Glu Pro Lys 5 10 Xaa 20 (2) INFOFMATION FOR SEQ ID NO: 288: 25 (1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 38 amino acids (B) TYPE: amino acid (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 288: 30 Met Gln Arg Lys Val Jer Asp Phe Ile Ile His Gln Arg Leu Thr Val 1 5 10 Asn Leu Cys Val Ile Ser Phe Phe Phe Phe Leu Pro Ile Cys Ile Phe 35 25 Ser Leu Ala Lys Lys Kaa 35 40 (2) INFORMATION FOR SEQ ID NO: 289: (1) SEQUENCE CHARACTERISTICS: 45 (A) LENGTH: 12 amino acids (B) TYPE: amino acid (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 289: 50 Met Ala Leu Leu Ile Ser Ser Leu Ile Trp Ser Xaa 5 55 (2) INFOFMATION FOR SEQ ID NO: 290: (1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 35 amino acids (B) TYPE: amino acid 60 (D) TOPOLOGY: linear

	(xi) DEQUENCE DESCRIPTION: SEQ ID NO: 290:
5	Met Gln Met Phe Thr Val Ser Leu Leu Ser Leu Leu Leu Arg Ser 1 5 10 15
~	Thr Asp Gln Asn His Leu Gln Leu Leu Val Gly Arg Glu Asp His Tyr 20 25 30
10	Gly Gly Xaa 35
15	(3) INFORMATION FOR SEQ ID NO: 291:
	(i) DEQUENCE CHARACTERISTICS: (A) LENGTH: 15 amino acids (B) TYPE: amino acid
20	(D) TCPCLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ 1D NO: 291:
25	Met Ser Glu Ser Ala Cys IIe Leu Asn Asn Gln Lys Glu Leu Xaa 1 5 10 15
	(2) INFORMATION FOR SEQ ID NO: 292:
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 44 amino acids (B) TYPE: amino acid (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ 11 NO: 292:
35	Met Asp Leu Asp Arg Val Lys Ala Glu Ala Thr Glu Asp Ile Thr Ser 1 5 10 15
40	Gly Val Leu Cys Leu Leu Phe Leu Arg Leu Pro Pro Ash Ser Cys Ile 20 25 30
	Phe Pro Ser Ala Val Leu Gly Ser Thr Arg Thr Xaa 35 40
45	(2) INFORMATION FOR SEQ ID NO: 293:
50	(1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 136 amino acids (B) TYPE: amino acid (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID No. 293:

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			35					40					45			
5	Phe	Ser 50	Leu	Thr	Ala	Phe	Asn 55	Asn	Leu	Glu	Asn	Leu 60	Val	Phe	Gly	Lys
2,	Gly 65	Phe	Gln	Ala	Lys	Ile 70	Phe	Pro	Glu	Ile	Leu 75	Lēu	Cys	Leu	Leu	Leu 80
10	Ala	Leu	Phe	Ala	Ser 85	Gly	Leu	Ile	His	Arg 90	Val	Cys	Val	Thr	Thr 95	Cys
	Phe	Ile	Phe	Ser 100	Met	Val	Gly	Leu	Tyr 105	Tyr	Ile	Asn	Lys	Ile 110	Ser	Ser
15	Thr	Leu	Tyr 115	Gln	Ala	Ala	Ala	Pro 120	Val	Leu	Thr	Pro	Ala 125	Lys	Val	Thr
20	Gly	Lys 130	Ser	Буз	Lys	Arg	Asn 135	Xaa								
	(2)	INF	OR MA Y	PION	FOR	SEQ	I DI	NO: 2	294:							
25			(i) :	(A) L B) T	ENGT YPE:	H: 3 ami	ERIS' 4 am no a lin	ino cid		s					
30			(xi)	SEQ						EQ II	ON C	: 29	4:			
	Met 1	Phe	Ile	Phe	Leu 5	Phe	Leu	Cys	Val	Leu 10	Ser	Arg	Lys	Ile	Gln 15	Glu
35	Glu	Tyr	Tyr	Arg 20	Leu	Phe	Lys	Asn	Val 25	Pro	Cys	Cira	Phe	Gly 30	Cys	Leu
	Arg	Xaa														
40																
	(2)	INF	ORMAT	noi1	FOR	SEQ	ID 1	NO: 2	295:							
45			(i):	(A) L B) T	ENGT YPE :	H: 1 ami	ERIS 37 a no a lin	mino cid		đs					
50	36-5-			SEQ												
<i>.</i>	Met 1	Arg	Thr	Pro	Gly 5	Pro	Leu	Pro	Val	Leu 10	Leu	Leu	Leu	Leu	Ala 15	Gly
55	Ala	Pro	Ala	Ala 20	Arg	Pro	Thr	Pro	Pro 25	Thr	Cys	Tyr	Ser	Arg 30	Met	Arg
	Ala	Leu	Ser 35	Gln	Glu	Ile	Thr	Arg 40	Asp	Phe	Asn	Leu	Leu 45	Gln	Val	Ser
60	Glu	Pro 50	Ser	Glu	Pro	Суѕ	Val 55	Arg	Tyr	Leu	Pro	Arg 60	Leu	Tyr	Leu	Asp

	11e 65	His	Asn	Tyr	Cys	∵al 70	Leu	qsA	Lys	Leu	Arg 75	Asp	Phe	Val	Ala	Ser 80
5	Pro	Pro	Cys	Trp	Lys 85	Val	Ala	Gln	Val	Asp 90	Ser	Leu	Lys	Asp	Lys 95	Ala
10	Arg	Lys	Leu	Tyr 100	Thr	He	Met	Asn	Ser 105	Phe	Cys	Arg	Arg	Asp 110	Leu	Val
10	Phe	Leu	Leu 115	Asp	Asp	Cys	Asn	Ala 120	Leu	Glu	Tyr	Pro	11ë 125	Pro	Val	Thr
15	Thr	Val 130	Leu	Pro	Asp	Arq	Gln 135	Arg	Xaa							
20	(2)	INF		SEQIJ		CHA:	P.ACT	ERIS	296: TICS ino		s					
25			(xi)	(B) T D) T UENC.	OPOL	OGY :	lin		EQ I	D 110	: 29	6 :			
	Met 1	Trp	Leu	Leu	Lys 5	Pro	Ser	Ala	His	Ser 10	Pro	Val	His	Xaa	Leu 15	Val
30	Leu	Leu	Phe	Pri 20	Arg	Glγ	Trp	Ser	Gln 25	Pro	Gly	Thr	His	Lys 30	Arg	Gln
35	Ile	Leu	Val 35		Хаа	Ala	Ser	Leu 40	Pro	Gly	Gly	Cys	Leu 45	Leu	Pro	Trp
	Ile	Trp 50		Gly	Ala	Ala	Leu 55	Arg	Phe	Xaa						
40	(2)	INF	C119C	TION	FOR	SEQ	ID	NO:	297 :							
45				1	(A)	ENGT TYPE : YOPO!	:H: 3 . ami .corr:	85 am ino a : lir		acid): 29	17 :			
50	Met 1		Arg	Arg	Ala 5		Ala	Ser	Ile	Phe 10		Leu	Pro	Lys	Thr 15	
	Leu	Phe	e Val	Leu 3 h		Pro	Ala	. Fhe	Pro os		Pro	Ala	. Val	Gly	- Cys	Pro

 $+i N_{i-1} - \cdots - + N_i - \cdots - + \cdots - + \cdots - + N_i$

5				(A) L B) T D) T	ENGT YPE: OPOL	H: 7 ami OGY:	8 am no a lin	ino cid ear	acid		: 29	3:			
10	Ser 1	Cys	Tyr	Ile	Thr 5	Pro	Trp	Ser	Lys	Ile 10	Gln	Ser	Phe	Ser	Leu 15	Ser
10	Leu	Phe	Gln	Phe 20	Ile	Leu	Gln	Glu	Val 25	Asn	Ile	Thr	Leu	Pro 30	Glu	Asn
15	Ser	Val	Trp 35	Tyr	Glu	Arg	Tyr	Lys 40	Phe	Asp	Ile	Pro	Val 45	Phe	His	Leu
	Asn	Gly 50	Gln	Phe	Leu	Mét	Met 55	His	Arg	Val	Asn	Thr 60	Ser	Lys	Leu	Glu
20	Lys 65	Gln	Leu	Leni	Lys	Leu 70	Glu	Gln	Gln	Ser	Thr 75	Gly	Xaa	Xaa		
25	(2)	INFO	ORMA'	rion	FOR	SEQ	ID I	NO: 1	299 :							
30				(A) L B) T D) T	ENGT YPE: OPOL	H: 9 ami OGY:	5 am no a lin	ino cid ear	acid		: 29	9 :			
35	Met 1	Phe	Val	Leu	Phe 5	Ser	Leu	Pro	Lys	Tyr 10	Ala	Gly	Leu	Arg	Leu 15	Pro
	Ile	Pro	Gly	Leu 20	Ser	Ala	Leu	Leu	Val 25	Phe	Leu	Leu	Ser	Leu 30	Phe	Ser
40	Arg	Arg	Ala 35	Gln	Val	Glu	Leu	Thr 40	Thr	Gly	Arg	Glu	Thr 45	Leu	Pro	Lys
	Asn	Leu 50	Gln	Gly	Tyr	Phe	Pro 55	Glu	Phe	Gly	Phe	Gln 60	Val	Gln	Asn	Phe
45	Leu 65	Ser	Cys	Lys	Ile	Tyr 70	Ala	Ala	Ser	Gln	Lys 75	Gln	Pro	Leu	Pro	Pro 80
50	Leu	Tyr	Gln	Leu	Arg 85	Phe	Tyr	Leu	Lys	His 90	Met	Gly	Leu	Pro	Xaa 95	
	(2)	INF	ORMA'	LIO11	FOR	SEQ	ID	NO:	300:							
55			(i)	(ENCE A) L B) T D) T	ENGT YPE :	H: 4	14 am .no a	ino cid		ls					
60			(xi)	SEQ						EQ I	D NO	: 30	0 :			

	Met 1	Ser	Ser	His	Trp 5	Thr	Leu	Lys	Ile	Leu 10	Leu	Val	Pro	Leu	Phe 15	Tyr
5	Leu	Ser	Leu	Glu 20	Phe	Pro	Ser	Gly	Phe 25	Val	Leu	Cys	Leu	Ala 30	Asn	Asp
	Leu	Gly	Tyr 35	His	Phe	Ser	Ser	Arg 40	Val	Arg	Ser	Xaa				
10	(2)	T N HEZY	DE 11 1 1	DY CAL	tion.	ana	77. h	.o	201							
15	()	1141			ENCE A) L	CHAI ENGT	RACTI H: 3		rics ino .		S					
			(xi)		D) T	OPOL	OGY :	lin	ear	EQ II	ои с	: 30	1:			
20	Met 1	Leu	Val	Val	Asn 5	Ile	Asn	Leu	Val	Phe 10	Leu	Leu	Phe	Phe	Ile 15	Phe
25	Leu	Cys	Tyr	Leu 20	Агр	Ala	Суз	Ile	Asn 25	Val	Phe	Суз	Phe	Tyr 30	Xaa	
	(2)	INF	ORMA!	LION	F⊖R	SEQ	ID 1	1 0: 3	302:							
30			(i)	(A) L B) T	ENGT YPE:	H: 1	13 a: no a	mino		ds					
35			(xī)	SEC	TENTO			lın	ear				^			
		-	,					PTIC	N: S						-1	
	Met 1	Pro	Val					PTIC	N: S					Leu	Thr 15	Leu
40	1			Leu	Pro 5	Gly	Arg	PTIO	N: S: Thr	Ala 10	Leu	Leu	Ser			
40	1 Ala	Phe	Ala	Leu Val 20	Pro 5 Pro	CYS	Arg Ser	PTION Thr Gly	Thr Val	Ala 10 Glu	Leu Ala	Leu Gly	Ser Pro	Cys 30	15	Pro
40 45	1 Ala Arg	Phe Ser	Ala His 35	Leu Val 20 Gly	Pro 5 Pro Cys	Gly Cys Ser	Arg Ser Ser	Thr Gly Trp 40	Thr Val 25 Gtu	Ala 10 Glu Ala	Leu Ala Ser	Leu Gly Val	Ser Pro Cys 45	Cys 30 Val	15 Val	Pro Ser
	Ala Arg Ser	Phe Ser Thr 50	Ala His 35 Pro	Leu Val 20 Gly	Pro 5 Pro Cyo	Gly Cys Ser Ser	Arg Ser Ser Trp 55	Thr Gly Trp 40	Thr Val 25 Giu	Ala 10 Glu Ala Ary	Leu Ala Ser Ala	Leu Gly Val Leu 60	Ser Pro Cys 45 Phe	Cys 30 Val Pro	15 Val Thr	Pro Ser Ala

	(2)	INFORMATION FOR SEQ ID NO: 303:
5		(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 amino acids (B) TYPE: amino acid (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 303:
10	Thr 1	His Ile His Thr His Ile Ile Cys Ser Ser Val Xaa 5 10
15	(2)	INFORMATION FOR SEQ ID NO: 304:
20		(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 35 amino acids(B) TYPE: amino acid(D) TOPOLOGY: linear(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 304:
25	Met 1	Glu Asn Phe Phe Phe Ser Phe Tyr Leu Phe Leu Ile Thr Leu Ile 5 10 15
25	Pro	Asn Gly Arg Thr Leu Ser Thr Thr Ala Asp His Cys Lys Ile Pro
30	Cys	Ile Xaa 35
35	(2)	INFORMATION FOR SEQ ID NO: 305: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 35 amino acids (B) TYPE: amino acid
40		(D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 305:
	Met 1	Glu Leu Trp Glu Leu Ala Leu Cys Leu Leu Val Ala Leu Ser Ala 5 10 15
45	His	Met Phe Thr Val Gln Leu Leu Ala Asp Leu Gly Phe Leu Phe Gly 20 25 30
50	Gly	Phe Xaa 35
	(2)	INFORMATION FOR SEQ ID NO: 306:
55		(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 82 amino acids (B) TYPE: amino acid (D) TOPOLOGY: linear
60		(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 306:

	Met 1	Gly	Ala	Sly	11- 1	1-12	1	lau	Leu	Leu 10	Pro	Leu	Ğlu	Jor	Val 15	Leu
5	Thr	Dvs	341	775 20	ĭ_÷	ತಿಕ್ಕ	Val	Fer	Thr 28	Ser	Glu	Arg	Gln	Leu 30	Trp	Gln
	· ×	Ser	91n 38	Dys	Alŝ		114	1.94 40	Str	Lou	Lys	Leu	Asp 45	Ser	Суѕ	Phe
10	ာ့ေ	G17 50	His	Ser	Gly	Leu	Dys 85	Gly	Lys	Asn	Glu	Asp 50	Thr	Asp	Ser	Ser
15	741 45	111	11-	lle	Pro	Ser 70	Liya	Thr	His	Thr	His 75	Leu	Gly	Lys	His	Leu 80
	110	Zater														
20	(2)	1177	SEMA	MIIN	FOF	ಾಕ್ಟು	ID :	NO: I	307 :							
25				,	A) 1 B) T D) T	enge 1795 : 1790 L	H: 7 ami OGY:	ERIS 2 am no a lin PTIC	ino cid ear	acid		: 30	7:			
30	Met 1	Phe	Tyt	∋⊬ē	Val	Leu	Phe	Ilə	Tyr	Ser 10	Ser	Ser	Glu	Thr	Trp 15	Ser
	Gly	Ser	Val	11 a 2 i	31:.	Asp	G.7	Val	His 25	Gly	Val	Ile	Ile	Gly 30	His	Cys
35	Ser	Val	Clu 3f	144	Pso	'Gly	Ser	Gly 40	Asp	Pro	Pro	Ala	Ser 45	Ala	Xaa	Leu
40	Val	Ala 50		Inr	Ĭ.ē	Зlγ	55	Cys	Pro	Thr	Met	Pro 60	Gly	Phe	Val	Tyr
	Phe 65	Letu	Apn	λop	Va.	Xaa 70	Ann	Хаа								
45	(3)	DE	ozigi	77.37	₽1ª	JFQ.	:0:		309:							
50				(A) 1 B) T D) T	EVCT YPE: CPCL	H: 3 ami <i>CTY</i> :	ERIS 4 am no a lin PTIC	ino cid ear	acid		: 30	8:			

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5	(2)	111F	ORMA'	TICN	FOR	SEQ	ID I	: CM	309:							
10				(A) L B) T D) T	ENGT YPE: OPOL	H: 1 ami CGY:	.15 a no a lin	mino cid ear	aci		. 70	ο.			
				SEQ												
15	Met 1	Gln	Val	Val	Gly 5	Ser	Trp	Pro	Gly	Arg 10	Val	Gly	Val	Val	Gly 15	Leu
	Ala	Phe	Ser	Leu 20	Val	Ile	Pro	Pro	Pro 25	Ala	Ile	Суѕ	Ile	Ala 30	Gly	Pro
20	Ala	Pro	G1y 35	Leu	Gly	Gly	Gly	Glu 40	Arg	Gln	Gln	Lys	Gly 45	Leu	Gly	Arg
	Gly	Gly 50	Gly	Glу	Leu	Arg	Asn 55	Cys	Pro	Gly	Arg	Val 60	Gly	Met	Ala	Ala
25	Glu 65	Pro	Gly	Ala	Leu	Leu 70	Cys	Leu	Thr	Ser	Arg 75	Asp	Gly	Ser	Leu	Leu 80
20	Leu	Ser	Ċys	Val	Arg 85	Pro	His	His	Val	Ile 90	Lys	Pro	Lys	Gly	Thr 95	Ala
30	Lys	Lys	Lys	Lys 100	Lys	Lys	Lys	Lys	Lys 105	Lys	Lys	Lys	Lys	Lys 110	Xaa	Xaa
35	Gly	Gly	Хаа 115													
1 0	(2)	INF	ORMA'	nOII	FOR	SEQ	ID !	NO: 3	310:							
			(i) .		A) L	ENGT	н: 1	ERIS 08 a no a	mino		ds					
15			(xi)	(SEQI				lin PTIO		EQ II	D NO	: 31	0:			
	Met 1	Asp	Leu	Pro	Gln 5	Phe	Ile			Phe 10		Phe	Cys	Phe	Cys 15	Суз
50	Leu	Ala	Ile	Val 20	Asn	Asn	Ala	Ser	Ile 25	Asn	Ile	His	Ile	Gln 30	Val	Ser
55	Met	Trp	Leu 35	Tyr	Val	Phe	Ile	Ser 40	Leu	Gly	Tyr	Leu	His 45	Gly	Ser	Arg
5	Ile	Leu 50	Gly	His	Asn	Ile	Ile 55	Leu	Cys	Leu	Thr	Ser 60	Gln	Arg	Ile	Ala
50	Lys 65	Arg	Phe	Phe	Ile	Val 70	Ala	Ala	Ser	Phe	Thr 75	Phe	Pro	Pro	Ala	Met 80

	Tyre	Lys	Апр	Phe	Тут 85	Phe	Ser	Ile	Ser	Leu 90	His	Leu	Pro	Thr	Leu 95	Leu
5	Phe	Xaa	Жаа	Хаа 100	Phe	Val	Phe	Sér	Leu 105	Leu	Pro	Pro				
10	(2)	1111	ORMA'	TION	FOR	SEQ	ID	NC: .	311:							
15				(А) L В) Т D) Т	FIICT YPE: OPOL	H: 6 ami OGY:	ERIS 5 am no a lin	ino cid ear	acid		1.1	,			
					Ser					Pro		: 31 Pro		Leu		Val
20	l Phe		Phe		5 Phe	Phe	Ser	Fro		10 Trp	Ala	Ala	Lys	Val	15 Val	Pro
25	Gln	Trp		20 Xaa	Arg	His	Fro		25 Val	Ser	Ser	Gln		30 Leu	Leu	Cys
20	Phe		35 Arg	Val	Asn	Суз		40 Fhe	Leu	Phe	Leu	Gln	45 Glu	Ile	Leu	Phe
30	Xa ā 65	50					55					60				
35	(2)	INF/	ORMA	non	FCF.	SEÇ	ID 1	NC: I	312:							
40				(A) L B) T D) T	ENGT YPE : OPOL	H: `5 ami OGY:	ERIS' 0 am no a lin PTIO	ino cid ear	acid		: 31	2 :			
45	Met 1	¥γs	Lõu	Ser	Arg ç	Trp	Lys	Ile	Phe	Tyr 10	Thr	Leu	Leu	Ile	Leu 15	Ph⊖
* † _!	Каа	Каа	Phe	Ser 29	He	Thr	Sof	Olu	Man 15	Hu	Thr	БЙч	Тут	Мыт 30	710	Il-e
50	Ile	His	His 35	Asn	Pro	Thr	Gln	Ile 40	Thr	Ala	Ser	Cys	Ser 45	Phe	Thr	Pho
	Leu	Maa 50														
60								86 1.2 93 - n			lis.					

								no a lin								
			(xi)					nii Oltq		EQ II	ON C	: 31	3 :			
5	Met 1	Glu	Arg	Pro	Asp 5	Trp	Glu	Thr	Ala	Ile 10	Gln	Lys	Pro	Leu	Cys 15	Ser
10	Leu	Pro	Ala	Gly 20	Ser	Gly	Asn	Ala	Leu 25	Ala	Ala	Ser	Leu	Asn 30	Ніз	Tyr
	Ala	Gly	Tyr 35	Xaa	Gln	Val	Thr	Asn 40	Glu	Asp	Leu	Leu	Thr 45	Asn	Cys	Thr
15	Leu	Leu 50	Leu	Суз	Arg	Arg	Leu 55	Leu	Ser	Fro	Met	Asn 60	Leu	Leu	Ser	Leu
	His 65	Thr	Ala	Ser	Gly	Leu 70	yra	Leu	Phe	Ser	Val 75	Leu	Ser	Leu	Ala	qrT 03
20	Gly	Phe	Ile	Ala	Asp 85	Val	Asp	Leu	Glu	Ser 90	Glu	Lys	Tyr	Ary	Arg 95	Leu
25	Gly	Glu	Met	Arg 100	Phe	Thr	Leu	Gly	Thr 105	Fhe	Leu	Arg	Leu	Ala 110	Ala	Leu
	Arg	Thr	Tyr 115	Arg	Gly	Arg	Leu	Ala 120	Tyr	Leu	Pro	Val	Gly 125	Arg	Val	Gly
30	Ser	Lуs 130	Thr	Pro	Ala	Ser	Pro 135	Val	Val	Val	Gln	Gln 1 4 0	Gly	Pro	Val	Asp
	Ala 145	His	Leu	Val	Pro	Leu 150	Glu	Glu	Pro	Val	Pro 155	Ser	His	Trp	Thr	Val 160
35	Val	Pro	ązA	Glu	Asp 165	Phe	Val	Leu	Val	Leu 170	Ala	Leu	Leu	His	Ser 175	His
40	Leu	Gly	Ser	Glu 180	Met	Phe	Ala	Ala	Pro 185	Met	Gly	Arg	Cys	Ala 190	Ala	Gly
	Val	Met	His 195	Leu	Phe	Tyr	Val	Arg 200	Ala	Gly	Val	Ser	Arg 205	Ala	Met	Leu
45	Leu	Arg 210	Leu	Phe	Leu	Ala	Met 215	Glu	Lys	Gly	Arg	His 220	Met	Glu	Tyr	Glu
	Cys 225	Pro	Tyr	Leu	Val	Тут 230	Val	Pro	Val	Val	Ala 235	Phe	Arg	Leu	Glu	Pro 240
50	Lys	Asp	Gly	Lys	Gly 245	Val	Phe	Ala	Val	Asp 250	Gly	Glu	Leu	Met	Val 255	Ser
55	Glu	Ala	Val	Gln 260	Gly	Gln	Val	His	Pro 265	Asn	Tyr	Phe	Trp	Met 270	Val	Ser
55	Gly	Cys	Val 275	Glu	Pro	Pro	Pro	Ser 280	Trp	Lys	Pro	Gln	Gln 285	Met	Pro	Pro
60	Pro	Glu 290	Glu	Pro	Leu											

5	(2)	INF	ORMAT	rion	FOR	SEQ	ID I	3 0: 1	314:							
10				(A) L B) T D) T	ENGT YPE: CPOL	H: 6 ami OGY:	8 am no a lin	ino cid ear	acid		: 31	1 :			
	Met 1	Pro	Leu	Glu	Gly 5	Phe	Суз	Leu	Val	Leu 10	Asp	Ilė	Glγ	Phe	Leu 15	Leu
15	Val	Met	Lini	Ile 20	Ser	Leu	Ala	Jer	Glu 25	Cys	Phe	The	Thr	Cys 30	Leu	Asp
20	Ser	Phe	Ser 35	Thr	Thr	Glu	Pro	Gly 40	Cys	Lys	Phe	Tyr	Lys 45	Leu	Leu	His
_(/	Ser	Val 50	Ser	Leu	Leu	Asn	Ile 55	Asn	Phe	Asn	Val	Lys 60	Ser	Leu	Leu	Суя
25	Ser 65	His	Ile	Xaa												
30	(2)		OFMAT	SEQU (ENCE A) L	CHA ENGT	RACT H: 1		TICS mino		ds					
30 35	(2)		(1)	SEQUI (ENCE A) L B) T D) T	CHA ENGT YPE:	RACT H: l ami OGY:	ERIS' 05 a no a lin	TICS mino cid ear	aci		: 31	5:			
			(1)	SEQU)) SEQ	ENCE A) L B) T D) T UENC	CHA ENGT YPE: CPCL E DE	RACT H: l ami OGY: SCRI	ERIS' 05 a no a lin PTIO	TICS mino cid ear N: S	aci EQ I	0 11 0			Leu	Val 15	Phe
	Met 1	Pro	(1) (xi)	SEQU (((SEQ	ENCE A) L B) T D) T UENC Leu 5	CHA ENGT YPE: CPCL E DE	RACT H: l ami OGY: SCRI Gly	ERIS' 05 a no a lin PTIO	TICS mino cid ear N: S: Tyr	aci EQ I Trp 10	D NO Ile	Ser	Leu		15	
35 40	Met 1 Leu	Pro Ser	(1) (Xi) Leu	SEQU (((SEQ Gln Gln	ENCE A) L B) T D) T UENC Leu 5	CHA ENGT YPE: CPCL E DE Ser	RACT H: 1 ami OGY: SCRI Gly Pro	ERIS' 05 a no a lin PTIO Gln	TICS mino cid ear N: S: Tyr Ala 25	EQ II Trp 10 Ala	D NO Ile Ile	Ser Pro	Leu Cys	Ala 30	15 Leu	Thr
35	Met 1 Leu Asp	Pro Ser Val	(xi) (xi) Leu Leu Gly 35	SEQU (((SEQ Gln Gln 20	ENCE A) L B) T D) T UENC Leu 5 Pro	CHA ENGT YPE: CPCL E DE Ser Phe	RACT H: 1 ami OGY: SCRI Gly Pro	ERIS' 05 a no a lin PTIO Gln Gln Ile 40	rics mino cid ear N: S: Tyr Ala 25	EQ II Trp 10 Ala	D NO Ile Ile	Ser Pro	Leu Cys Leu 45	Ala 30 Asn	15 Leu Cys	Thr
35 40	Met 1 Leu Asp Cys	Pro Ser Val	(xi) (xi) Leu Leu Gly 35	SEQUUE SEQUE GIN GIN GIN GIY	ENCE A) L B) T D) T UENC Leu 5 Pro Ser	CHALENGT YPE: COPOL E DE Ser Phe Cys	RACTH: 1 ami OGY: SCRI Gly Pro Val Thr 55	ERIS 05 a no a lin prio Gln Gln Ala	TICS mino cid ear N: S Tyr Ala 25 Cys	EQ II Trp 10 Ala His	D NO Ile Ile Ile	Ser Pro Leu	Leu Cys Leu 45 His	Ala 30 Asn Val	15 Leu Cys Leu	Thr Len

Leu Leu Pro Cys Ser Phe Pro Arg Pro Cys Xaa Leu Phe Gly Leu Ile 20 25 30 Pro Ile Ser Ard Pro Cys Lys Val Glu Ala Pro Arg Leu Ser Val Pro 35 40 45 Xaa Leu Ser Cys Ala Ser His Pro Tyr Cys Asn Cys Pro Met Ser Thr 50 55 60 Ser Cys Pro Leu Pro Arg Xaa 65 7) 25 (2) INFORMATION FCR SEQ ID NO: 317: (i) SEQUENCE CHARACTERISTICS: (A) LENCTH: 39 amino acids (B) TYPE: amino acids (B) TYPE: amino acids (D) TOPOLOGY: linear (Xi) SEDUENCE DESCRIPTION: SEQ ID NO: 317: Met Leu Asn Val Leu Ser Lys Val Gln Gln Leu Val Ser Xaa Leu Gly 1 5 10 Ser Val Thr Phe Leu Leu Asn His Ser Ala Ala Gly Gly Ser Pro Gln 20 25 30 His Arg Trp Leu Leu Leu Xaa 35 (2) INFORMATION FCR SEQ ID NO: 318: (i) SEQUENCE CHARACTERISTICS: (A) LENCTH: 72 amino acids (B) TYPE: amino acids (B) TYPE: amino acids (B) TYPE: amino acids (B) TYPE: mino acid (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 318: Met Lys Ala Ile Ala Arg Ala Cys Leu Leu Leu Ser Leu Leu Val Leu 1 5 30 Pro His Val Val Ser Glu His Leu Phe Trp His His Asn Pro Arg His 20 25 30 Pro Val Ile Trp Pro Phe Pro Phe His Leu Ile Ser Cys Ser Val 35 40 45				(i) :						TICS							
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Met Trp Gly Cys Ser Gly Leu Gly His Arg Thr Val Ser Phe Leu Leu 1 5 10 15 Leu Leu Pro Cys Ser Phe Pro Arg Pro Cys Xaa Leu Phe Gly Leu Ile 20 20 25 40 40 45 Xaa Leu Ser Arg Pro Cys Lys Val Glu Ala Pro Arg Leu Ser Val Pro 50 40 45 Xaa Leu Ser Cys Ala Ser His Pro Tyr Cys Asn Cys Pro Met Ser Thr 50 56 60 Ser Cys Pro Leu Pro Arg Xaa 65 70 25 (2) INFORMATION FOR SEQ ID NO: 317: (i) SEQUENCE CHARACTERISTICS: (A) LENCTH: 39 amino acids (B) TYPE: amino acid (C) TOPOLOCY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 317: Met Leu Asn Val Leu Ser Lys Val Gln Gln Leu Val Ser Xaa Leu Gly 15 Leu Val Thr Phe Leu Leu Asn His Ser Ala Ala Gly Gly Ser Pro Gln 20 25 30 His Arg Trp Leu Leu Leu Xaa 35 (2) INFORMATION FOR SEQ ID NO: 318: (i) SEQUENCE CHARACTERISTICS: (A) LENCTH: 72 amino acids (B) TYPE: amino acid (D) TOPOLOCY: linear (Xi) SEQUENCE CHARACTERISTICS: (A) LENCTH: 72 amino acids (B) TYPE: amino acid (B) TYPE: Immino acid (C) TOPOLOCY: linear (Xi) SEQUENCE CHARACTERISTICS: (A) LENCTH: 72 amino acids (B) TYPE: DESCRIPTION: SEQ ID NO: 318: Met Lys Ala Ile Ala Arg Ala Cys Leu Leu Leu Ser Leu Leu Val Leu 1 5 10 15 Pro His Val Val Ser Glu His Leu Phe Trp His His Asn Pro Arg His 20 25 30 Pro Val Ile Trp Pro Phe Pro Pro Phe His Leu Ile Ser Cys Ser Val 35 40 45	5																
10 Leu Leu Pro Cys Ser Phe Pro Arg Pro Cys Xaa Leu Phe Gly Leu ile 20 Pro Ile Ser Arg Pro Cys Lys Val Glu Ala Pro Arg Leu Ser Val Pro 35 A0 A5 Xaa Leu Ser Cys Ala Ser His Pro Tyr Cys Asn Cys Pro Met Ser Thr 50 Ser Cys Pro Leu Pro Arg Xaa 65 (1) SEQUENCE CHARACTERISTICS: (A) LENCTH: 39 amino acids (B) TYPE: amino acid (D) TORLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 317; Met Leu Asn Val Leu Ser Lys Val Gln Gln Leu Val Ser Xaa Leu Gly 1 5 10 15 Leu Val Thr Phe Leu Leu Asn His Ser Ala Ala Gly Gly Ser Pro Gln 25 30 His Arg Trp Leu Leu Leu Xaa 35 (2) INFORMATION FOR SEQ ID NO: 318: (i) SEQUENCE CHARACTERISTICS: (A) LENCTH: 72 amino acids (B) TYPE: amino acids (B) TYPE: maino acids (B) TYPE: maino acids (B) TYPE: maino acids (B) TYPE: maino acids (C) INFORMATION FOR SEQ ID NO: 318: (i) SEQUENCE CHARACTERISTICS: (A) LENCTH: 72 amino acids (B) TYPE: maino acids (B) TYPE: maino acids (C) TORLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 318: Met Lys Ala Ile Ala Arg Ala Cys Leu Leu Leu Ser Leu Leu Val Leu 1 5 10 Pro His Val Val Ser Glu His Leu Phe Trp His His Asn Pro Arg His 20 25 30 Pro Val Ile Trp Pro Phe Pro Pro Phe His Leu Ile Ser Cys Ser Val 35 40 45				(xi)	SEQ	JENC:	E DES	SCRI	PTIO	N: S	EQ II	OM C	: 319	S :			
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Leu Leu Pro Cys Ser Phe Pro Arg Pro Cys Xaa Leu Phe Gly Leu Ile 20 25 30 Pro Ile Ser Ard Pro Cys Lys Val Glu Ala Pro Arg Leu Ser Val Pro 35 40 45 Xaa Leu Ser Cys Ala Ser His Pro Tyr Cys Asn Cys Pro Met Ser Thr 50 55 60 Ser Cys Pro Leu Pro Arg Xaa 65 7) 25 (2) INFORMATION FCR SEQ ID NO: 317: (i) SEQUENCE CHARACTERISTICS: (A) LENCTH: 39 amino acids (B) TYPE: amino acids (B) TYPE: amino acids (D) TOPOLOGY: linear (Xi) SEDUENCE DESCRIPTION: SEQ ID NO: 317: Met Leu Asn Val Leu Ser Lys Val Gln Gln Leu Val Ser Xaa Leu Gly 1 5 10 Ser Val Thr Phe Leu Leu Asn His Ser Ala Ala Gly Gly Ser Pro Gln 20 25 30 His Arg Trp Leu Leu Leu Xaa 35 (2) INFORMATION FCR SEQ ID NO: 318: (i) SEQUENCE CHARACTERISTICS: (A) LENCTH: 72 amino acids (B) TYPE: amino acids (B) TYPE: amino acids (B) TYPE: amino acids (B) TYPE: mino acid (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 318: Met Lys Ala Ile Ala Arg Ala Cys Leu Leu Leu Ser Leu Leu Val Leu 1 5 30 Pro His Val Val Ser Glu His Leu Phe Trp His His Asn Pro Arg His 20 25 30 Pro Val Ile Trp Pro Phe Pro Phe His Leu Ile Ser Cys Ser Val 35 40 45	10	1				5					10					15	
Xaa Leu Ser Cys Ala Ser His Pro Tyr Cys Asn Cys Pro Met Ser Thr 50	10	Leu	Leu	Pro		Ser	Phe	Pro	Arg		Cys	Xaa	Leu	Phe	_	Leu	Ile
Ser Cys Pro Leu Pro Arg Xaa 55 70 26 (2) INFORMATION FOR SEQ ID NO: 317: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 39 amino acids (B) TYPE: amino acids (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 317: Met Leu Asn Val Leu Ser Lys Val Gln Gln Leu Val Ser Xaa Leu Gly 1 5 10 15 Leu Val Thr Phe Leu Leu Asn His Ser Ala Ala Gly Gly Ser Pro Gln 20 25 30 His Arg Txp Leu Leu Leu Xaa 35 (2) INFORMATION FOR SEQ ID NO: 318: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 72 amino acids (B) TYPE: amino acid (B) TYPE: amino acid (C) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 318: Met Lys Ala Ile Ala Arg Ala Cys Leu Leu Leu Ser Leu Leu Val Leu 1 5 10 15 Pro His Val Val Ser Glu His Leu Phe Trp His His Asn Pro Arg His 20 25 30 Pro Val Ile Trp Pro Phe Pro Pro Phe His Leu Ile Ser Cys Ser Val 35 40	15	Pro	Ile		Arg	Pro	Суз	Lys		Glu	Ala	Pro	Arg		Ser	Val	Pro
25 (2) INFORMATION FOR SEQ ID NO: 317: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 39 amino acids (B) TYPE: amino acids (B) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 317: Met Leu Asn Val Leu Ser Lys Val Gln Gln Leu Val Ser Xaa Leu Gly 1 5 10 15 Leu Val Thr Phe Leu Leu Asn His Ser Ala Ala Gly Gly Ser Pro Gln 20 25 30 His Arg Trp Leu Leu Leu Xaa 35 (2) INFORMATION FOR SEQ ID NO: 318: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 72 amino acids (B) TYPE: amino acid (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 318: Met Lys Ala Ile Ala Arg Ala Cys Leu Leu Leu Ser Leu Leu Val Leu 1 5 10 15 Pro His Val Val Ser Glu His Leu Phe Trp His His Asn Pro Arg His 20 25 30 Pro Val Ile Trp Pro Phe Pro Pro Phe His Leu Ile Ser Cys Ser Val 35 40 45		Xaa		Ser	C7.2	Ala	Ser		Pro	Τγτ	Cys	Asn		Pro	Met	Ser	Thr
(i) SEQUENCE CHARACTERISTICS: (A) LENCTH: 39 amino acids (B) TYPE: amino acid (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 317: Met Leu Asn Vai Leu Ser Lys Val Gln Gln Leu Val Ser Xaa Leu Gly 1 5 10 15 Leu Val Thr Phe Leu Leu Asn His Ser Ala Ala Gly Gly Ser Pro Gln 20 25 30 His Arg Trp Leu Leu Leu Xaa 35 (2) INFORMATION FOR SEQ ID NO: 318: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 72 amino acids (B) TYPE: amino acid (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 313: Met Lys Ala Ile Ala Arg Ala Cys Leu Leu Leu Ser Leu Leu Val Leu 1 5 10 15 Pro His Val Val Ser Glu His Leu Phe Trp His His Asn Pro Arg His 20 25 30 Pro Val Ile Trp Pro Phe Pro Pro Phe His Leu Ile Ser Cys Ser Val 35 40 45	20		Cys	Pro	Leu	Pro		Xaa									
(A) LENGTH: 39 amino acids (B) TYPE: amino acid (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 317: Met Leu Asn Val Leu Ser Lys Val Gln Gln Leu Val Ser Xaa Leu Gly 1 5 10 15 Leu Val Thr Phe Leu Leu Asn His Ser Ala Ala Gly Gly Ser Pro Gln 20 25 30 His Arg Trp Leu Leu Leu Xaa 35 (2) INFORMATION FOR SEQ ID NO: 318: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 72 amino acids (B) TYPE: amino acid (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 318: Met Lys Ala Ile Ala Arg Ala Cys Leu Leu Leu Ser Leu Leu Val Leu 1 5 10 15 Pro His Val Val Ser Glu His Leu Phe Trp His His Asn Pro Arg His 20 25 30 Pro Val Ile Trp Pro Phe Pro Pro Phe His Leu Ile Ser Cys Ser Val 35 40 45	25	(2)	INF	ORMA	ricni	FCR	SEQ	ID I	: : OV	317:							
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Leu Val Thr Phe Leu Leu Asn His Ser Ala Ala Gly Gly Ser Pro Gln 70 25 30 His Arg Trp Leu Leu Leu Xaa 35 (2) INFORMATION FOR SEQ ID NO: 318: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 72 amino acids (B) TYPE: amino acid (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 318: Met Lys Ala Ile Ala Arg Ala Cys Leu Leu Leu Ser Leu Leu Val Leu 1 5 10 15 Pro His Val Val Ser Glu His Leu Phe Trp His His Asn Pro Arg His 20 25 30 Pro Val Ile Trp Pro Phe Pro Pro Phe His Leu Ile Ser Cys Ser Val											-						
His Arg Trp Leu Leu Leu Xaa 40 (2) INFORMATION FOR SEQ ID NO: 318: (i) SEQUENCE CHARACTERISTICS:	35		Leu	Asn	Vai		Ser	Lys	Val	Gln		Leu	Val	Ser	Xaa		Gly
40 (2) INFORMATION FOR SEQ ID NO: 318: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 72 amino acids (B) TYPE: amino acid (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 318: Met Lys Ala Ile Ala Arg Ala Cys Leu Leu Leu Ser Leu Leu Val Leu 1 5 10 15 Pro His Val Val Ser Glu His Leu Phe Trp His His Asn Pro Arg His 20 25 30 Pro Val Ile Trp Pro Phe Pro Pro Phe His Leu Ile Ser Cys Ser Val 35 40 45		Leu	Val	Thr		Leu	Leu	Asn	His		Ala	Ala	Gly	Gly		Pro	Gln
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 72 amino acids (B) TYPE: amino acid (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 318: Met Lys Ala Ile Ala Arg Ala Cys Leu Leu Leu Ser Leu Leu Val Leu 1 5 10 15 Pro His Val Val Ser Glu His Leu Phe Trp His His Asn Pro Arg His 20 25 30 Pro Val Ile Trp Pro Phe Pro Pro Phe His Leu Ile Ser Cys Ser Val 35 40 45	40	His	Arg		Leu	Leu	Leu	Xaa									
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50 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 318: Met Lys Ala Ile Ala Arg Ala Cys Leu Leu Leu Ser Leu Leu Val Leu 1 5 10 15 55 Pro His Val Val Ser Glu His Leu Phe Trp His His Asn Pro Arg His 20 25 30 Pro Val Ile Trp Pro Phe Pro Pro Phe His Leu Ile Ser Cys Ser Val 35 40 45				(i)	(A) L B) T	ENGT YPE :	H: 7	'2 ал .no a	oni cid		s					
1 5 10 15 Pro His Val Val Ser Glu His Leu Phe Trp His His Asn Pro Arg His 20 25 30 Pro Val Ile Trp Pro Phe Pro Pro Phe His Leu Ile Ser Cys Ser Val 35 40 45	50			(xi)							EQ I	D NO	: 31	3:			
20 25 30 Pro Val Ile Trp Pro Phe Pro Pro Phe His Leu Ile Ser Cys Ser Val 35 40 45			Lys	Ala	Ile		Arg	Ala	Cys	Leu		Leu	Ser	Leu	Leu		Leu
35 40 45	55	Pro	His	Val		Ser	Glu	His	Leu			His	His	Asn		Arg	His
	60	Pro	Val		-	Pro	Phe	Pro		Phe	His	Leu	Ile		Cys	Ser	Val

	Ser	Ala 50	Ser	Thr	TT	His	Leu 55	Gly	Glu	Каа	Leu	Leu 60	Leu	Leu	Val	Pro
5	Ile 65	Ala	Pro	Ser	Val	Ттр 70	Ser	Xaa								
10	(2)	IIF		SEQUI	ENCE A) L	CHAI	RACT: H: 6	NO: B ERIST 2 am no a	TICS		್ಷ					
15			(xi)					lin PTIO		EQ II	D NO	: 31	9 :			
	Met 1	Glu	Gln	Gly	Gly 5	Gly	Pro	Arg	Leu	Leu 10	Leu	Leu	Ilė	Pro	Gly 15	Leu
20	Leu	His	Asn	Thr 20	ፈንታ.	Leu	Ala	Arg	Pro 25	Gly	Yab	Phe	Pro	Ala 30	Gln	Ğly
2.5	Thr	Thr	Glu 35	Asn	Thr	Glu	Cys	Gln 40	Gly	Ser	Pro	Ser	Pro 45	Ile	Ser	His
25	Leu	Gly 50	Lys	Val	Arg	Ser	Leu 55	Asp	Ser	Asn	Thr	Gln 60	Ile	Xaa		
30	(2)	INF	OR MA '	rion	FOR	SEQ	ID 1	NO: 3	320:							
35				((A) L B) T D) I	ENGT YPE: OPOL	H: 2 ami OGY:	ERIS 86 a no a lin PTIO	mino cid ear	aci		: 32	0:			
40	Met 1	Pro	Leu	Leu	Phe 5	Phe	Ser	Val	Ser	Thr 10	Leu	Phe	Ser	Gly	Ser 15	Val
	Thr	Lyu	G ln	Gln 20	Arg	Gly	Mat	Phe	Leu 25	Pro	Trp	Thr	Gly	Thr 30	Gly	Glu
45	Gln	V., 1	Lu 35	Ala	Len	Len	Trp	Pro 40	Arg	Phy	Glu	Leu	11e 45	Leu	Glu	Met
50	Asn	Val 50		Ser	Val	Arg	Ser 55	Thr	Asp	Pro	Gln	Arg 60	Leu	Gly	Gly	Leu
50	Asp 65		Arg	Pro	His	Tyr 70	lle	Thr	Arg	Arg	Tyr 75	Ala	Glu	Phe	Ser	So: 80
									1					 :1-/		
				1					i .					* 1 -2		

 60° . Also Also the the Ger Ser Arg Tys sign sin ion Value ten Tie Amn.

			115					120					135			
5	Asn	Tyr 130	Asp	Met	Met	Leu	Gly 135	Val	Leu	Met	Glu	Arg 140	Ala	Ala	Asp	Asp
	Ser 145	Lys	Glu	Val	Glu	Ser 150	Phe	Gln	Gln	Leu	Leu 155	Asn	Ala	Arg	Thr	Gln 160
10	Glu	Phe	Ile	Glu	Glu 165	Leu	Leu	Ser	Pro	Pro 170	Phe	Gly	Gly	Leu	Val 175	Ala
	Phe	Val	Lys	Glu 180	Ala	Glu	Ala	Leu	Ile 135	Glu	Arg	Gly	Gln	Ala 190	Glu	Arg
15	Leu	Arg	Gly 195	Glu	Glu	Ala	Arg	Val 200	Thr	Gln	Leu	Ile	Arg 205	Gly	Phe	Gly
20	Ser	Ser 210	Trp	Lys	Ser	Ser	Val 215	Glu	Ser	Leu	Ser	Gln 220	qzA	Val	Met	Arg
	Ser 225	Phe	Thr	Asn	Phe	Arg 230	Asn	Gly	Thr	Ser	Ile 235	Ile	Gln	Gly	Ala	Leu 240
25	Thr	Gln	Leu	Ile	Gln 245	Leu	Тут	His	Arg	Phe 250	His	Arg	Val	Leu	Ser 255	Gln
	Pro	Gln	Leu	Arg 260	Ala	Leu	Pro	Ala	Arg 265	Ala	Glu	Leu	Ile	Asn 270	Ile	His
30	His	Leu	Met 275	Val	Glu	Leu	Lys	Lys 280	His	Lys	Pro	Asn	Phe 285	Xaa		
35	(2)	INF	ORMA:	rion	FOR	SEQ	ID 1	1 0: 3	321:							
			(1)	(A) L	ENGT	H: 5	ERI <i>S</i> 5 am	ino		S					
40			(xi)	(E) T	OPOL	OGY :	no a lin PTION	ear	EQ II	ON C	: 321	1:			
45	Met 1	Phe	Arg	Ala	Leu 5	Arg	Asp	Leu	Leu	Thr 10	His	Tyr	Pro	Gln	Gln 15	Ile
	Leu	Leu	Gln	Val 20	Leu	Val	Val	Met	Tyr 25	Gln	Val	Leu	Gln	Val 30	Trp	Glu
50	Leu	Pro	Trp 35	Pro	Glu	Leu	Ile	His 40	Leu	Gln	Gly	Ile	Val 45	Pro	Thr	Asp
	Gln	Leu 50	His	Leu	Lys	Gln	Xaa 55									
55																
	(2)	INFO	ORMA:	rion	FOR	SEQ	ID 1	10: 3	322:							
60			(i) .					ERIST 9 am			s					

WO 98/54963 PCT/US98/11422

529

	(E) TYPE: amino acid (D) TOPOLOGY: linear (XI) SEQUENCE DESCRIPTION: SEQ ID No. 322: 5 Asp Phe Val Pro Val Leu Val Phe Val Leu Ile Lys Ala Ash Pro Pro															
5	Asp 1	Phe	Val	Pro	Val 5	Leu	Val	Phe	Val	Leu 10	Ile	Lys	Ala	Asn	Pro 15	Pro
10	Суѕ	Leu	Leu	Ser 20	Thr	Val	Gln	Тут	Ile 25	Ser	Ser	Phe	Тут	Ala 30	Ser	Cys
	Leu	Ser	Gly 35	Glu	Glu	Ser	Tyr	Trp 40	Trp	Met	Gln	Phe	Thr 45	Ala	Ala	Val
15	Glu	Phe 50	Ile	Lys	Thr	Ile	Asp 55	Asp	Arg	Lys	Xaa					
20	(2)		ORMAC	SEQUI	ENCE	CHAI	RACTI	ERIS.	rics							
25			(xi)	(E) T	YPE: OPOL	ami: CGY:	20 ai no a lin PTIDI	cid ear			: 32	3:			
	Met 1	His	Pro	Ala	Arg 5	Lys	Leu	Leu	Ser	Leu 10	Leu	Phe	Leu	Ile	Leu 15	Met
30	Gly	Thr	Glu	Leu 20	Thr	Gln	Asp	Ser	Ala 25	Ala	Pro	Asp	Ser	Leu 30	Leu	Arg
35	Ser	Ser	Lys 35	Gly	Ser	Thr	Arg	Gl ₇ 40	Ser	Leu	Ala	Ala	11e 45	Val	Ile	Trp
	Arg	Gly 50	Lys	Ser	Glu	Ser	Arg 55	Ile	Ala	Lys	Thr	Pro 60	Gly	Ile	Phe	Arg
40	Gly 65	Gly	Gly	Thr	Leu	Val 70	Leu	Pro	Pro	Thr	H1s 75	Thr	Pro	Glu	Trp	Leu 80
	lle	Leu	Pro	Leu	Gly 85	Ile	Thr	Le-1	Pro	Leu 90	Gly	Ala	Pro	Glu	Thr 95	Gly
15	31y	GLY	Asp	Суз 100	Ala	Ala	Glu	The	Trp 105	Lys	öly	Set	١:: د	Arg 110	Ala	ЗĽу
50	Gln	Leu	Cys 115	Ala	Leu	Leu	Ala	Жаа 120								
	(2)	m	- PANT	. °.	E-D		e et. →		2 ¹ :							

i i frædy linear Om Opforior i Edgriffiche OFO (1916) (504)

60

 $e(X_{k+1}) = e(X_{k+1}) = e(X_{k+1}) = A$

	Phe 1	Phe	Leu	Val	Val 5	Phe	Ser	Leu	Ser	Phe 10	Xaa	Pro	Ser	Val	Leu 15	Thr	
5	Ser	Pro	Val	His 20	Xaa	Pro	His	Cys	Cys 25	Gln	Xaa	Asp	Xaa	Ile 30	Leu	Phe	
	Lys	Asn	Thr 35	Leu	Xaa	Хаа	Phe	Xaa 40	Ala	Lys	Tyr	Хаа					
10																	
	(2)			rion													
15				(A) L B) T D) T	ENGT YPE: OPOL	H: 5 ami CGY:	9 am no a lin	ino cid ear	acid		: 32	ō :				
20	Met 1	Phe	Ser	Arg	Thr 5	Ser	Asn	Phe	Trp	Thr 10	Phe	Phe	Phe	Gln	Phe 15	Leu	
25	Ile	Phe	Lys	Val 20	Phe	Leu	Val	Leu	Lys 25	Asn	Хаа	Phe	Thr	Ser 30	Gln	Lys	
	Ile	Xaa	Xaa 35	Ile	Xaa	Xaa	Glu	Lys 40	Pro	Lys	Lys	Lys	Lys 45	Xaa	Arg	Gly	
30	Gly	Arg 50	Ala	Pro	Ser	Pro	Gln 55	Gly	Gly	Pro	Xaa						
35	(2)	INFO	ORMAT	LICI1	FOR	SEQ	ID 1	1 0: 3	326:								
			(i) .		A) L	EN GTI	H: [1	ERIS 8 am no a	ino.		S						
40			(xi)	() SEQU				lin PTIO		EQ II	ON C	: 326	5 :				
	Met 1	Gly	Leu	Leu	Ile 5	Phe	Met	Leu	Leu	Ile 10	Gly	Ile	His	Ser	Gln 15	Cys	
45	Ser	Xaa															
50	(2)	INFO	DRMAT	ricn	FOR	SEQ	ID N	10: 3	127 :								
			(i) :		4) L	ENGT	H: 8	ERIST 7 aum no au	ino		5						
55			(xi)) T	OPOL	OGY:	lin	ear	EQ II) NO:	: 327	⁷ :				÷ .
60	Met 1	Val	Leu	Phe	Cys 5	Phe	Val	Leu	Phe	Cys 10	Phe	Val	Phe	Glu	Met 15	Asp	

	Ser	Ser	Ser	Val 20	Thr	Gln	Ala	Gly	Val 25	Gln	Trp	Суs	Азр	Leu 30	Gly	Ser
5	Leu	Gin	Ala 35	Pro	Pro	Pro	Gly	Phe 40	Ser	Pro	Phe	Ser	ंपूड 45	Leu	Ser	Leu
	Pro	Ser 50	Ser	Trp	Asp	Tyr	Arg 55	Arg	Pro	Pro	Pro	eo Yra	Pro	Ala	Asn	Phe
10	Leu 65	Tyr	Phe	Leu	Val	Glu 70	Thr	Gly	Phe	Hıs	His 75	Val	Ser	Gln	Asp	Gly 80
15	Leu	Asp	Leu	Leu	Thr 85	Ser	Xaa									
	(2)	INF	ORMA:	rion	FCR	SEQ	IDI	NO:]	328:							
20			(1)	(A) L B) T	ENGT YPE:	H: 5 amı	ERIS 33 a no a lin	mino cid		ds					
25			(xi)	SEQ	UENC:	E DE	SCRI	PTIO	N: S	EQ I	D NO	: 32	8 :			
	Met 1	Ser	Thr	Lys	Lys 5	Leu	Суз	Ile	Val	Gly 10	Gly	Ile	Leu	Leu	Val 15	Phe
30	Gln	Ile	Ile	Ala 20	Phe	Leu	Val	Gly	Gly 25	Leu	Ile	Ala	Pro	Gly 30	Pro	Thr
	Thr	Ala	Val 35	Ser	Тут	Met	Ser	Val 40	Lys	Cys	Val	Asp	Ala 45	Arg	Lys	Asn
35	His	His 50		Thr	Lys	Trp	Phe 55	Val	Pro	Trp	Gly	Pro 60	Asn	His	Cys	Asp
40	Lys 65	Ile	Arg	Asp	Ile	Glu 70	Glu	Ala	Ile	Pro	Arg 75	Glu	Ile	Glu	Ala	Asn 80
	Asp	Ile	Val	Phe	Ser 35	Val	His	Il∻	Pro	Leu 90	Pro	His	Met	Glu	Met ifb	Ser
45	Pro	Trp	Phe	Gln 100	Phe	Met	Leni	Phe	:le 105	Leu	Gln	Leu	Азр	11:≥ 110	Ala	Phe
	Lys	Leu	Asn 115		Gln	Ile	Arg	Glu 120	Asn	Ala	Glu	Val	Ser 125	Met	Агр	Val
50	Ser	Leu 130		Tyr	Arg	Asp	Asp 135	Ala	Phe	Ala	Glu	Trp 140	Thr	Glu	Met	Ala
	Hin	C)11	Ard		₹	7	T : · · ·	•	÷ e .	25. 1. 2	mile de	F \$2	Perk .	,	٠.	-
60	№ -*,	Jin	Il.,	Gly 180	slest	val	Ala	ніз	1ya 185	i be	77.2	17 1	. Desti	Asn 1 #1	Ile	Arı

	Leu	Pro	Va1 195	Asn	GIu	Lys	Lys	Lys 200	Ile	Asn	Val	Gly	11e 205	Gly	Glu	Ile
5	Lys	Asp 210	Ile	Arg	Leu	Val	Gly 215	Ile	His	Gln	Asn	Gly 220	Gly	Phe	Thr	Lys
10	Val 225	Trp	Phe	Ala	Met	Lys 230	Thr	Phe	Leu	Thr	Pro 235	Ser	Ile	Phe	Ile	Ile 240
	Met	Val	Trp	Туг	Trp 245	Arg	Arg	Ile	Thr	Met 250	Met	Ser	Arg	Pro	Pro 255	Val
15	Leu	Leu	Glu	Lys 260	Val	Ile	Phe	Ala	Leu 265	Gly	Ile	Ser	Met	Thr 270	Phe	Ile
	Asn	Ile	Pro 275	Val	Glu	Trp	Phe	Ser 280	Ile	Gly	Phe	Asp	Trp 285	Thr	Trp	Met
20	Leu	Leu 290	Phe	Gly	qzA	Ile	Arg 295	Gln	Gly	Ile	Phe	Pyr 300	Ala	Met	Leu	Leu
25	Ser 305	Phe	Trp	Ile	Ile	Phe 310	Cys	Gly	Glu	His	Met 315	Met	Asp	Gln	His	Glu 320
	Arg	Asn	His	Ile	Ala 325	Gly	Tyr	qr'T	Lys	Gln 330	Val	Gly	Pro	Ile	Ala 335	Val
30	Gly	Ser	Phe	Cys 340	Leu	Phe	Ile	Phe	Asp 345	Met	Cys	Glu	Arg	Gly 350	Val	Gln
	Leu	Thr	Asn 355	Pro	Phe	Tyr	Ser	Ile 360	Trp	Thr	Thr	Asp	Ile 365	Gly	Thr	Glu
35	Leu	Ala 370	Met	Ala	Phe	Ile	11e 375	Val	Ala	Gly	Ile	Cys 380	Leu	Cys	Leu	Tyr
40	Phe 385	Leu	Phe	Leu	Cys	Phe 390	Met	Val	Phe	Gln	Val 395	Phe	Arg	Asn	Ile	Ser 400
	Gly	Lys	Gln	Ser	Ser 405	Leu	Pro	Ala	Met	Ser 410	Lys	Val	Arg	Arg	Leu 415	His
45	Tyr	Glu	Gly	Leu 420	Ile	Phe	Arg	Phe	Lys 425	Phe	Leu	Met	Leu	11e 430	Thr	Leu
	Ala	Cys	Ala 435	Ala	Met	Thr	Val	Ile 440	Phe	Phe	Ile	Val	Ser 445	Gln	Val	Thr
50	Glu	Gly 450	His	Trp	Lys	Trp	Gly 455	Gly	Val	Thr	Val	Gln 460	Val	Asn	Ser	Ala
5 5	Phe 465	Phe	Thr	Gly	Ile	Tyr 470	Gly	Met	Trp	Asn	Leu 475	Tyr	Val	Phe	Ala	Leu 480
- -	Met	Phe	Leu	Tyr	Ala 485	Pro	Ser	His	Lys	Asn 490	Tyr	Gly	Glu	Asp	Gln 495	Ser
60	Asn	Gly	Met	Gln 500	Leu	Pro	Cys	Lys	Ser 505	Arg	Glu	Asp	Cys	Ala 510	Leu	Phe

	Va1	Ser	Glu 515	Leu	Tyr	Gln	Glu	Leu 520		Ser	Ala	Ser	Lys 525		Ser	Ph⊷
5	ile	- Asn 530		Asn	Ala	Ala	Ser 535	Gly	Ile	Xaa						
10	(2)	INF				SEQ										
15) (A) I B) T D) T	CHA ENGT YPL: OPCL E DE	H: 2 ami OGY:	02 a no a lin	mind cid ear	aci		: 32	9:			
20	Met 1	Gly	Ila	Ala	Leu 5	Ala	Val	Leu	Gly	Trp	Leu	Ala	Val	Met	Leu 15	Cys
	Cys	Ala	Leu	Pro 20	Met	Trp	Arg	Val	Thr 25	Ala	Phe	Ile	Gly	Ser 30	Asn	Ile
25	Val	Thr	Ser 35	Gln	Thr	Ilæ	Trp	Glu 40	Gly	Leu	Trp	Met	Asn 45	Суз	Val	Val
	Gln	Ser 50	Thr	Gly	Gln	Mert	Gln 55	Cys	Lys	Val	Tyr	qzA 03	Ser	Leu	Leu	Ala
30	Leu 65	Pro	Gln	Acp	Leu	GIn 70	Ala	Ala	Arg	Ala	Leu 75	Val	Ile	Ile	Ser	Ile 80
35	Ile	Val	Ala	Ala	L1: 85	Gly	Val	Leu	Leu	Ser 90	Val	Val	Gly	Gly	Lys 95	Cys
	Thr	Asn	Cyts	Leu 100	Glu	Asp	Glu	Ser	Ala 105	Lys	Ala	Lys	Thr	Met 110	Ile	Val
40	Ala	Gly	Val 115	Val	File	Letu	Leu	Ala 120	Gly	Leu	Met	Val	11e 125	Val	Pro	Val
	Ser	Trp 130	Thr	λia	His	Ann	Ile 135	Πş	Gln	Asp	Phe	Tyr 140	Aon	Pri	L∂u	Val
45	A14 145	dur	зіγ	31:.	Lyst	Απη 150	Glu	Met	317	Ala	Ser 155	Leu	Tyr	Val	Gly	Trp 160
	Ala	Ala	Ser	Gly	Leu	Lett	Leu	Leu	Gly	Gly	Gly	Leu	Leu	Cys	Cys	Asn

165 170 175

Cys Pro Pro Arg Thr Asp Lys Pro Tyr Ser Ala Bys Tyr Ser Ala Ala 180 185 190

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	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 263 amino acids (B) TYPE: amino acid (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 330:															
5			(xi)							EQ I	D 130	: 33	0 :			
	Met 1	Ala	Thr	Val	Thr 5	Ala	Thr	Thr	Lys	Val 10	Pro	Glu	Ile	Arg	Asp 15	Val
10	Thr	Arg	Ile	Glu 20	Arg	Ile	Gly	Ala	H1S 25	Ser	His	Ile	Arg	Gly 30	Leu	Gly
15	Leu	Asp	Asp 35	Ala	Leu	Glu	Pro	Arg 40	Gln	Ala	Ser	Gln	Gly 45	Met	Val	Gly
	Gln	Leu 50	Ala	Ala	Arg	Arg	Ala 55	Ala	Gly	Val	Val	Leu 60	Glu	Met	Ila	Arç
20	Glu 65	Gly	Lys	Ile	Ala	Gly 70	Arg	Ala	Val	Leu	Ile 75	Ala	Gly	Gln	Pro	Gl)
	Thr	Gly	Lys	Thr	Ala 85	Ile	Ala	Met	Gly	Met 90	Ala	Gln	Ala	Leu	Gl ₇ 95	Pro
25	Asp	Thr	Pro	Phe 100	Thr	Ala	Ile	Ala	Gly 105	Ser	Glu	Ile	Phe	Ser 110	Leu	Glu
30	Met	Ser	Lys 115	Thr	Glu	Ala	Leu	Thr 120	Gln	Ala	Phe	Arg	Arg 125	Ser	Ile	Gly
	Val	Arg 130	Ile	Lys	Glu	Glu	Thr 135	Glu	Ile	Ile	Glu	Gly 140	Glu	Val	Val	Glu
35	11e 145	Gln	Ile	Asp	λrg	Pro 150	Ala	Thr	Gly	Thr	Gly 155	Ser	Lys	Val	317	Lys 160
10	Leu	Thr	Leu	Lys	Thr 165	Thr	Glu	Met	Glu	Thr 170	Ile	Tyr	Asp	Leu	Gly 175	Thr
40	Lys	Met	Ile	Хаа 180	Ser	Leu	Thr	Lys	Asp 185	Lys	Val	Gln	Ala	Gly 190	Asp	Val
45	Ile	Thr	Ile 195	Asp	Lys	Ala	Thr	Gly 200	Lys	Ile	Ser	Lys	Leu 205	Gly	Arg	Ser
	Phe	Thr 210	Arg	Ala	Arg	Glu	Leu 215	Arg	Arg	Тут	Gly	Leu 220	Pro	Asp	Gln	Val
50	Arg 225	Ala	Val	Pro	Arg	Trp 230	Gly	Ala	Pro	Glu	Thr 235	Gln	Gly	Gly	Gly	Ala 240
	His	Arg	Val	Pro	Ala 245	Arg	Asp	Arg	Arg	His 250	Gln	Leu	Ser	His	Pro 255	Gly
55	Leu	Pro	Gly	Ala 260	Leu	Leu	Arg									

60 (2) Information for SEQ ID NO: 331:

			(i)	SEQU												
5			15:1		(B) ((D) (TYPE TOPOI	PH: : : am LOGY	ino a	acid near							
	Met	Leu		SEÇ Leu	. Leu	Gly								r Leat	ı Leni	Gly
10	1 Leu		Gly	Leu	۾ Ala		Ala	Glu	. Ile	10 Ser		. Val	C'ys	: Glu	15 Lys	
				20					25					30 - Ile		
15			35					40					45			
20		50					55					60				
20	65					70					75			Ara		9.0
25					85					90				Ser	95	
				100					105					Thr 110		
30	Arg	Ala	Gly 115	Ile	Lys	Asp	Arg	Val 120	Tyr	Ser	Asn	Ser	Ile 125	Tyr	Glu	Leu
	Leu	Glu 130	Asn	Gly	Gln	Arg	Ala 135	Gly	Thr	Cys	Val	Leu 140	Glu	Tyr	Alā	Thr
35	Pro 145	Len	Gln	Thr	Leu	Phe 150	Ala	Met	Ser	Gln	Tyr 155	Ser	Gln	Ala	Gly	Phe 160
40	Ser	Gly	Glu	Asp	Arg 165	Leu	Gľu	Gln	Ala	Lys 170	Leu	Phe	Cys	Arg	Thr 175	Leu
	Glu	Asp	Ile	Leu 130	Ala	Asp	Ala	Pro	Glu 185	Ser	Gln	Asn	Asn	Cys 190	Aru	Lena
45	ile	λla	Tyr 195	Gln	Glu	Pro	Ala	Asp 200	Asj.	Sex	Ser	Phe	26± 265	Loui	Ger	G1n
	Glu	Val 210	Leu	Arg	His	Leu	Arg 215	Gln	Glu	Glu	Lys	Gl ¹ 220	Glu	Val	Thr	Val
50	Gly 225	Ser	Leu	Lys	Thr	Ser 230	Ala	Val	Pro	Ser	Thr 235	Ser	Thr	Met	Ser	Gln 240
	*11·:	D.E. I	11:1	ː · · · ·	; ;	riy.		. 1	·							

	(2) INF	ORMATI	ON FOR	SEQ ID	NO: 3	32:							
5			(B) T	ENGTH: YPE: am OPCLOGY	48 am ino a : lin	ino d cid ear	acid:		: 332	2:			
10	Met Thr	Pro G	ln Lys 5	Pro Ala	. Leu	Ala	Val 10	Leu	Leu	Leu	Glu	Val 15	Pro
	Leu Leu		hr Leu 20	Ser Val	. Leu	Lys 25	Lys	Arg	Cys	Leu	Val 30	Thr	Cys
15	Glu Pro	Thr S	er Arg	Phe Val	. Ser 40	Cy:s	Asp	Leu	Pro	Leu 45	Ser	Val	Хаа
20													
	(2) IIIF	CRMATI	ON FOR	SEQ ID	NO: 3	333:							
25		(1) SE	(B) T	CHARAC' ENGTH: YPF: am CPOLOGY	334 a ino a	mino cid		ds					
30		(xi) S	SE DUENCI				EQ II	си с	: 33	3 :			
	Met Ala 1	Ala A	da Ala S	Trp Let	ı Gln	Val	Leu 10	Pro	Val	Ile	Leu	Leu 15	Leu
35	Leu Gly	· Ala H	lis Pro 20	Ser Pro) Leu	Ser 25	Phe	Phe	Ser	Ala	Gly 30	Pro	Ala
	Thr Val	Ala A 35	la Ala	Asp Arg	Ser 40	Lys	Trp	His	Ile	Pro 45	Ile	Pro	Ser
40	Gly Lys		yr Phe	Ser Phe		Lys	Ile	Leu	Phe 60	Arg	Asn	Thr	Thr
45	Ile Phe 65	Leu L	ys Phe	Asp Gly	/ Glu	Pro	Cys	Asp 75	Leu	Ser	Leu	Asn	Ile 80
,5	Thr Trp	Tyr L	eu Lys 85	Ser Ala	a Asp	Суз	Тут 90	Asn	Glu	Ile	Tyr	Asn 95	Phe
50	Lys Ala		Glu Val .00	Glu Le	ι Τуτ	Leu 105	Glu	Lys	Leu	Lys	Glu 110	Lys	Arg
	Gly Let	Ser G	Sly Lys	Tyr Gli	n Thr 120	Ser	Ser	Lys	Leu	Phe 125	Gln	Asn	Cys
55	Ser Glu		he Lys	Thr Gl:		Phe	Ser	Gly	Asp 140	Phe	Met	His	Arg
60	Leu Pro 145	Leu I	eu Gly	Glu Ly: 150	s Gln	Glu	Ala	Lys 155	Glu	Asn	Gly	Thr	Asn 160

	Leu	Thr	Phe	Ile	Gly 165	Asp	Lys	Thr	Ala	Met 170	His	Glu	Pro	Letti	51n 12k	Thr
5	Trp	Gln	Arp	Ala 180	Pro	Tyr	Ilo	Pho	Ile 185	Val	Hic	Il÷	Gly	110 190	Sor	Ser
	Ser	Lys	Glu 195	Ser	Ser	Lys	Glu	Asn 200	Ser	Leu	Ser	Asn	Leu 205	Phe	Thr	Met
10	Thr	Val 210	Glu	Val	Lys	Gly	Pro 215	Tyr	Glu	Tyr	Leu	Thr 220	Leu	Glu	Азр	Tyr
15	Pro 225	Leu	Met	Ile	Phe	Phe 230	Met	Val	Met	Cys	I1⊷ 235	Val	Tyr	Vil	Leu	Ph⊷ 240
15	Gly	Val	Leu	Trp	Leu 245	Ala	Trp	Ser	Ala	Суз 250		Trp	Ara	Asp	Leu 255	Lega
20	Arg	Ile	Gln	Ph∈ 250	TTP	Ile	Gly	Ala	Val 265		Fhe	Léu	Gly	Met 270	Letu	Glu
	Lys	Ala	Val 275		Tyr	Ala	Glu	Phe 230		Asn	Ile	Arg	Tyr 285		Gly	Хаа
25	Ser	Val 290		Gly	Ala	Leu	11e 295		Ala	. Glu	. Leu	Leu 300	Ser	Ala	Val	Lys
30	Arg 305		Leu	Ala	. Arg	Thr 310		val	Ile	· Ile	• Val 315		Leu	Gly	Tyr	Gly 320
30	Il∈	e Val	. Lys	: Pro	Arç 325		ı Glu	ı Ser	Lev	330		: Arg	Leu	ı Xaa		
35	(2)	IN	ORM	MOITZ	ı Foi	R SEG) ID	NO:	334:	:						
40					(A) (B) (D)	LENG TYPE TOPO	TH: : am LOGY	TERIS 200 ino : li IPTI	amin acid near	o ac		D: 3	34:			
45		t Va !	l Ind	a Ka		1 Va 5	l Th	r Le	a Gl	y L= 1	u Al. 0	a Leo	ı Ph	e Thi	i Deg	ı Cys k
	Gi	у Ту	s Ph	e Ly. 20		g Tr	p Ly	s La	u As 2		y Al	a Ph	e Lo	u Lem 3:	ı Il- O	a Thi
50	Al	a Ph	e Le		r Va	l Le	u Il	e Tr 4		l Al	a Tr	p Me	t Th 4	r Me 5	t Ty	r Leu
	٠.					٠				φ·		•)			-	

From Sort Don Ar a non-Thir Ala ido Pho Cys Gln id - Cys Ar a Ar a Thir 60

	Arg	Pro	Thr	Thr 100	Ser	Thr	Arg	Arg	Ser 105	Pro	Gly	Cys	Gly	Arg 110	Arg	Pro		
5	Ser	Arg	Arg 115	Thr	Cys	3er	Cys	Arg 120	Gly	Fro	Ile	Trp	Arg 125	Thr	Arg	Pro		
10	Ser	Pro 130		Met	Asn	Thr	Met 135	Gln	Leu	Ser	Glu	Gln 140	Gln	Asp	Phe	Pro		
1.9	Thr 145	Ala	Ala	Trp	Glu	Lys 150	Asp	Pro	Va1	Ala	Ala 155	Trp	Gly	Lys	Asp	Pro 160		
15	Ala	Leu	Arg	Leu	Glu 165	Ala	Thr	Cys	Ile	Ser 170	Gln	Leu	Ar'q	Trp	Pro 175	Ser		
	Cys	Ser	Thr	V:31 130	Gly	Pro	Ser	Gln	Leu 185	Leu	Arq	Gln	Val	Thr 190	Gln	Glu		
20	Xaa	Thr	Phe 195	Gly	Glu	Æg	Leu	Xaa 200										
25	(2)	INF	⊃RMA′	rion	FOR	SEO	ו חז	W) - "	335.									
	, - ,			SEQU	ENCE	СНА	RACT	ERI <i>S</i>	rics									
30			(xi)	(B) T D) T	YPE:	ami OGY:	4 am no a lin PTIO	cid ear			: 33	5 :					
35	Met 1	Leu	Leu	His	His 5	Gln	Leu	Leu	Ile	Val 10	Thr	Leu	His	Leu	Val 15	Leu		
<i>J J</i>	Leu	Leu	Ala	Thr 20	Lēu	Leu	Val	Xaa										
40	(2)	INFO	ORMA'	rion	FOR	SEQ	ID I	NO: 3	336:									
45				(A) L B) T D) T	ENGT YPE: OPOL	H: 1 ami OGY:	43 a no a lin	mino cid ear	aci		: 33	6 :					
50	Met 1	Thr	Lys	Ala	Leu 5	Leu	Ile	Tyr	Leu	Val	Ser	Ser	Phe	Leu	Ala 15	Leu		
	Asn	Gln	Ala	Ser 20	Leu	Ile	Ser	Arg	Cys 25	qaA	Leu	Ala	Gln	Val 30	Leu	Gln		
55	Leu	Glu	Asp 35	Leu	Asp	Gly	Phe	Glu 40	Gly	Tyr	Ser	Leu	Ser 45	Asp	Trp	Leu	-	
60	Cys	Leu 50	Ala	Phe	Val	Glu	Ser 55	Lys	Phe	Asn	Ile	Ser 60	Lys	Ile	Asn	Glu		

	Asn 65	Ala	Asp	Gly	Ser	Phe 70	Asp	Tyr	Gly	Leu	Phe 75	Gln	110	Asn	Ser	His 20
5	Tyr	Tip	ʻ`ys	Asn	Xāa ∂S	Tyr	Lys	Ser	Tyr	Jer 93	Jlu	Asn	Leu	Öys	His 95	Val
	Asp	Cys	Gln	Asp 100	Leu	Leu	Asn	Fro	Asn 105	Leu	Leu	Ala	oly	11e 11o	H13	Cys
10	Ala	Lys	Arg 115	He	Val	Ser	Gly	Ala 120	Arg	Gly	Met	Asn	Asn 12%	Trp	Val	Arg
15	Mest	431u 130	Kaā	Cys	Thr	Vā1	Gln 135	Ala	Sly	His	Ser	Ser 140	Thr	Gly	Каа	
	(2)	INFO	PMAT	ricn	FOR	SEQ	ID 1	10: J	337:							
20			(1)	(A) L B) T	ENGT YPE :	RACT: H: 9 ami OGY:	5 am no a	inc cid		e e					
25							SCRI:									
	net 1	Lēu	Val	lle	Ala 5	Gly	Gly	Ile	Leu	Ala 10	Ala	Leu	Leu	Leu	Leu 15	Ile
30	Val	Val	Val	Leu 20	Cys	Leu	Tyr	Fhe	Lys 25	Ile	His	Asn	Ala	Leu 30	Lys	Ala
	Ala	Lys	Glu 35	Pro	Glu	Ala	Val	Ala 40	Val	Lys	Asn	His	Aon 45	Pro	Aup	Lys
35	Val	Trp 50	Tip	Ala	Lys	Asn	3er 55	Gln	Ala	Lys	Thr	Ile 60	Ala	Thr	Glu	Ser
40	Cys 65	Pro	Ala	Leu	Gln	Cys 70	Cys	Glu	Gły	Tyr	Arg 75	Met	Cys	Ala	Jer	Phe 80
	Asp	Ser	Lett	Pro	Pro 95	Cys	Суs	Cys	Asp	11e 9)	Asn	Glu	Gly	Leu	Kaa ys	
45	(11)	INF:	OFMA:	PIUN	F.R	SHQ	ID:	90: 1	338:							
50				(A) L B) T D) T	ENGT YPE: 'CPOL	RACT H: 3 ami OSY: SCRI	8 am no a lin	ino cid mar	acid		: ² 3	P :			

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5	(2) INFORMATION FOR SEQ ID NO: 339:
10	(i) SEQUENCE CHAPACTERISTICS: (A) LENGTH: 39 amino acids (B) TYPE: amino acid (D) TOPCLCGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 339:
15	Met Leu Val Val Ala Phe 3ly Leu Leu Val Leu Tyr Ile Leu Leu Ala 1 5 10 15
	Ser Ser Trp Lys Arg Pro Glu Pro Gly Ile Leu Thr Asp Arg Gln Pro 25 30
20	Leu Leu His Amp Gly Glu Xaa 35
25	(2) INFORMATION FOR SEQ ID NO: 340:
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 71 amino acids (B) TYPE: amino acid
30	(D) TCPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 340:
	Ser Asp Pro Leu Ala Ser Ala Ser Gln Asn Ala Gly Ile Val Ser Val l 5 10 15
35	Gly Leu Cys Thr Arg Pro Gly Pro Gln Phe Lys Asn Ala Gln Pro Pro 10 25 30
40	Phe Pro Xaa Gln Lys Ala Pro Ara Cys Leu Trp Glu Asn Gln Pro Pro 35 40 45
	Pro Trp Arg Lys Ala Trp Asp Leu Pro Ser His Leu Gly Arg Arg Gly 50 55 60
45	Ile Cys Gly Lys Ser Phe Xaa 65 70
	(2) INFORMATION DOT
50	(2) INFORMATION FOR SEQ ID NO: 341: (i) SEQUENCE CHARACTERISTICS:
	(A) LENGTH: 85 amino acids (B) TYPE: amino acid
55	(D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 341:
	Tyr Val Met Ile Phe Lys Lys Glu Phe Ala Pro Ser Asp Glu Glu Leu 1 5 10 15
60	Asp Ser Tyr Arg Arg Gly Glu Glu Trp Asp Pro Gln Lys Ala Glu Glu

				2.0					25					30		
5	Lys	Arg	Asn 35	Kaa	Lys	Mu	Leu	Ala 40	Gln	Arg	Gln	Жаа	Gly 45	Gly	Sly	Ser
.,	Pro	Ala 50	Gly	Ala	Cys	Sly	Gly 55	Glu	Pro	Суз	Gin	Arg 60	Leu	Gln	Gly	Gln
10	Val 65	Gln	Pro	Pro	His	Arg 70	Ģln	Gly	Ser	Cer	Gln 75	Arg	Arşı	Ser	Pro	His 80
	Ala	Thr	Gly	Gln	Xaa 85											
15																
	(2)		ORMAT													
20			(i) :	(A) L B) T D) T	ENGT YPE: CPOL	H: 9 ami CGY:	0 am no a lin	ino sid ear	acid		: 34	2 !			
25	Met 1	Trp	Asp	Trp	Asp 5	Trp	Ser	Ala	Pro	Trp	Ser	Trp	Pro	Leu	Trp 15	Leu
30	Ser	Leu	Ala	Leu 20	Val	Cys	Leu	Ser	Ala 25	Gly	Ala	Lys	Gly	His 30	Arg	Ala
	Ser	Glu	Ala 35	Gly	His	Ala	Arg	Ala 40	Leu	Thr	Çys	Glu	Met 45	Gly	Ser	Glu
35	Phe	Хаа 50	Thr	Ala	Хаа	Gly	Leu 55	Val	Leu	Gly	Жаа	Xaa 60	Xaa	Trp	Thr	Xaa
	Xaa 65	Asn	Gly	Ser	Ala	Gly 70	Pro	Glu	Arq	Arg	Gly 75	Trp	Arq	Pro	Ala	Ala 80
40	Phe	Leu	Ala	Val	Phe 85	Leu	Leu	Gly	Asp	Xa a 90						
45	(2)	IMF.	JEMAT	01011	FDR	CEÇ	ID:	NJ: I	343:							
50			(i) .	(A) L B) T	FNGT YPE:	H: 4 ami	ERIS 8 am no a lin	ino cid		S					
			(xi)	SEQ	UENT:	E DE	SCRI					: 34	} ·			
	••.		•		• (6)											
60	17		Pt v	lhr	, +·1*	···.	A: 1	Leen	Каз	L ₂ t	17.0	ty.,	13955	î yo	1 7.5	Lyst

5																		
	(2)	INF	DRMA:	LION	FOR	SEQ	ID I	MO:]	344:									
10				(.	A) L B) T D) T	ENGT YPE : OPOL	H: 5 ami OGY:	6 am no a lin	ino cīd ear	acid		: 34	1 :					
15	Met 1	Суѕ	Ser	Lys	Asn 5	Gly	Phe	Leu	Leu	Ala 10	Trp	Ser	Trp	Asn	Ser 15	Pro		
20	Trp	Leu	Pro	Gln 20	Ala	Ser	Leu	Ala	His 25	Gly	Cys	Trp	Gly	Arg 30	Trp	Met		
	Ser	Asp	Leu 35	Val	Gly	Cys	Ser	Arg 4()	Glu	Asn	I.ys	Cys	Ala 45	Leu	Arg	Asp		
25	His	Ser 50	Glu	Arg	Val	Gln	Gly 55	Xaa										
30	(2)				ENCE A) L	CHAI EINGT	RACT H: 2	ERIS' 22 a	TICS mino		ds							
35			(xi)		D) T	OPCL	OGY :	no a lin PTIO	ear	EQ II	O NO	: 345	5 :					
	Ser 1	Pro	Leu	Xaa	Phe 5	Cys	Val	Val	L e u	Leu 10	Leu	Gln	Ala	Ala	Arg 15	Gly		
40	Tyr	Val	Val	Arg 20	Lys	Pro	Ala	Gln	Ser 25	Arg	Leu	Asp	Asp	Asp 30	Pro	Pro		
45	Pro	Ser	Thr 35	Leu	Leu	Lys	Asp	Tyr 40	Gln	Asn	Val	Pro	Gly 45	Ile	Glu	Lys		
15	Val	Asp 50	Asp	Val	Val	Lys	Arg 55	Leu	Leu	Ser	Leu	Glu 60	Met	Ala	Asn	Lys		
50	Lys 65	Glu	Met	Leu	Lys	Ile 70	Lys	Gln	Glu	Gln	Phe 75	Met	Lys	Lys	Ile	Val 80		
	Ala	Asn	Pro	Glu	Asp 85	Thr	Arg	Ser	Leu	Glu 90	Ala	Arg	Ile	Ile	Ala 95	Leu		
55	Ser	Val	Lys	Ile 100	Arg	Ser	Tyr	Glu	Glu 105	His	Leu	Glu	Lys	His 110	Arg	Lys		-
60	Asp	Lys	Ala 115	His	Lys	Arg	Tyr	Leu 120	Leu	Met	Ser	Ile	Asp 125	Gln	Arg	Lys		

	Lys	Met 130	Leu	Lys	Adn	Leu	Arg 135	Asn	Thr	Asn	Tyr	Asp 140	Val	Phe	Glu	Lys
5	Ile 145	Cys	Trp	Gly	Leu	Gly 150	Ile	Glu	Tyr	Thr	Phe 155	Pro	Pro	Leu	Tyr	17/r 160
	Arg	Arg	Ala	His	Arg 165	Arg	Phe	Val	Thr	Lys 170	Lys	Ala	Lou	Cys	11e 175	Arg
()	Val	Phe	Gln	Glu 180	Thr	Gln	Lys	Leu	Lys 185	Lys	Arq	Arg	Arg	Ala 190	Leu	Lys
15	Ala	Ala	Ala 195	Ala	Ala	Gln	Lys	Gln 200	Ala	Lys	Ara	Arg	Asn 205	Pro	asp	Ser
	Pro	Ala 210	Lys	Ala	Ile	Pro	Lys 215	Thr	Leu	Lys	Anp	Ser 220	Gln	Каа		
20	(2)	INFO	ORMA!	MC11	FOR	SEQ	ID !	MO: 1	346:							
			(i).	_				ERIS'								
25			(xi)	(B) T D) T	YPE: OPOL	ami OGY:	4 am no a lin PTIO	cid ear			: 34	6 :			
30	Met 1	Gly	Ala	Pro	Ala 5	Ala	Ser	Leu	Leu	Leu 10	Leu	Leu	Leu	Leu	Phe 15	Ala
	Cys	Cys	ДIÞ	Ala 20	Pro	Gly	Gly	Ala	Asn 25	Leu	Ser	Gln	Лор	qaA 08	Ser	Gln
35	Pro	Trp	Thr 35	Ser	Asp	Glu	Thr	Val 40	Val	Ala	Gly	Gly	Thr 45	Val	Val	Leu
40	Lys	Cys 50	Gln	Val	Lys	qaA	H18	Glu	Asp	Ser	Ser	Leu 60	Gln	Trp	Ser	Хаа
45	(2)	IDH-	orma:	n.ir	FIR	SEÇ	II)	NO:	347:							
50			(i)	(A) L B) T	ENGT YPE:	H: l ami	ERIS 54 a no a	mino cid		ds					
			(xi)					EALT.		EÇ I	D NO	: 34	7: ;			
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60	: (•	: * =1	; ;	٠	11.	·			٠.,	· .		٠.		٠.	e	

			35					40					45				
5	Gln	Pro 50	Gly	Pro	Leu	Glu	Pro 55	Glu	Glu	Pro	Arg	Ala 60	Gly	Gly	Arg	Pro	
J	Arg 65	Arg	Arg	Arg	Asp	Leu 70	Gly	Ser	Arg	Leu	Gln 75	Ala	Gln	Arg	Arg	Ala 80	
10	Gln .	Arg	Val	Ala	Trp 85	Ala	Glu	Ala	Asp	Glu 90	Asn	Glu	Glu	Glu	Ala 95	Val	
	Ile	Leu	Ala	Gln 100	Glu	Glu	Glu	Gly	Val 105	Glu	Lys	Pro	Ala	Glu 110	Xaa	His	
15	Leu .	Ser	Gly 115	Lys	Ile	Gly	Ala	Lys 120	Lys	Leu	Arg	Xaa	Xaa 125	Glu	Glu	Lys	
20	Gln .	Ala 130	Arg	Lys	Ala	Gln	Xaa 135	Glu	Ala	Glu	Glu	Ala 140	Glu	Arg	Glu	Xaa	
	Arg ! 145	Lys	Arg	Leu	Glu	Ser 150	Gln	Arg	Glu	Xaa							
25	(2)	INFO) PMAT	NOI.	FOR	SEO	ID 1	10: 3	48:								
				EQUE	ENCE	CHAI	RACTI	ERIS1	rics:		3						
30			(xi)	(1	B) T	YPE: OPOLA	ami DGY:	no ad line PTION	cid ear			: 348	3 :				
35	Met (Gln	Lys	Cys	Met 5	Leu	Ser	Ala	Leu	Val	Phe	His	Ile	Gln	Trp 15	Ser	
	Xaa																
40																	
	(2)																
45				() () ()	A) Li B) T O) T	ENGTI (PE : OPOL(4: 10 amir DGY:	ERIST Dami no ac line TION	ino a cid ear	acids		349) :				
50	Met I 1	Leu	Val	Cys	Ser 5	Phe	Leu	Phe	Leu	Xaa 10							
55	(2) 1	INFO	FMAT	ION	FOR	SEQ	ID N	0: 3	50:								
		(i) S	(2	A) LE	NGT	H: 14	RIST Lami	.no a		;						
60								no ac line									

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 359:
5	Val Ne Glu Leu Cys Val Ser Leu Arg Ser Leu Asn Phe Xaa 1 5 10
	(C) INFOFMATION FOR SEQ ID NO: 351:
10	(1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 aminc acid; (B) TYPE: aminc acid (D) TOPOLOGY: linear (X1) SEQUENCE DESCRIPTION: SEQ ID NO: 351:
15	Met Cys olu ime Kaå Kad Kad Ile Met Kad Leu Ala Gly Tyr Phe Ala l 5 10 15
20	Cyn Kaa
25	(2) INFORMATION FOR SEQ ID NO: 352: (1) GEQUEINE CHARACTERISTICS:
30	(A) LENGTH: 62 amino acids (B) TYPE: amino acid (T) TOHOLOGY: linear (SI) SEQUENCE DESCRIPTION: SEQ ID NO: 352:
	Met Val Gly Gly Cyr Val Ser Ser Phe Ser Phe Pro Pro Val Ser Ser 1 5 10 15
35	Ser Leu Leu Leu Ero Ala Ser Phe Ala Phe Pro Phe Leu Pro Gly Thr 20 25 3J ·
40	Pro Cys Pro Fne Lou Tyr Phe Leu Pro Ser Pro Phe Ser Pro Leu Pro 35 40 45
	Deu Ser Leu Thr Arg Ser Ash Ser Phe Leu Leu Aon Gly Xaa 50 - 85 - 60
45	°C) INF ^S EMATI'N FOR SEÇ ID No: 353;
50	(L) SEQUENCE CHAPACTERISTICS: (A) LENGTH: 33 amino acids (B) TYPE: amino acid (D) TOPOLOGY: linear (H1) SEQUENCE DESCRIPTION: SEQ ID NO: 353;
	e e je skolovenskom komination za se se se en

60 x. +

5	(2)	INFO	RMAT	CION	FOR	SEQ	ID N	10: 3	54:							
10				(1	A) L B) T D) T	ENGTI YPE : OPOLO	H: 24 amin DGY:	45 an no ao line	mino cid ear	acio		: 354	1:			
15	Met 1	Gly	Gly	Ala	Ser 5	Arg	Arg	Val	Glu	Ser 10	Gly	Ala	Trp	Ala	Tyr 15	Leu
13	Ser	Pro	Leu	Val 20	Leu	Arg	Lys	Glu	Leu 25	Glu	Ser	Leu	Val	Glu 30	Asn	Glu
20	Gly	Ser	Glu 35	Val	Leu	Ala	Leu	Pro 40	Glu	Leu	Pro	Ser	Ala 45	His	Pro	Ile
	Ile	Phe 50	Trp	Asn	Leu	Leu	Trp 55	Tyr	Phe	Gln	Arg	Leu 60	Arg	Leu	Pro	Ser
25	Ile 65	Leu	Pro	Gly	Leu	Val 70	Leu	Ala	Ser	Cys	A sp 75	Gly	Pro	Ser	Xaa	Ser 80
30	Gln	Ala	Pro	Ser	Pro 85	Trp	Leu	Thr	Pro	Asp 90	Pro	Ala	Ser	Val	Gln 95	Val
20	Arg	Leu	Leu	Trp 100	Asp	Val	Leu	Thr	Pro 105	Asp	Pro	Asn	Ser	Cys 110	Pro	Pro
35	Leu	Tyr	Val 115	Leu	Trp	Arg	Val	His 120	Ser	Gln	Ile	Pro	Gln 125	Arg	Val	Val
	Trp	Pro 130		Pro	Val	Pro	Ala 135	Ser	Leu	Ser	Leu	Ala 140	Leu	Leu	Glu	Ser
40	Val 145	Leu	Arg	His	Val	Gly 150	Leu	Asn	Glu	Val	His 155	Lys	Ala	Val	Gly	Leu 160
45	Leu	Leu	Glu	Thr	Leu 165		Pro	Pro	Pro	Thr 170	Gly	Leu	His	Leu	Gln 175	Arg
	Gly	Ile	Tyr	Arg 180	Glu	Ile	Leu	Phe	Leu 185	Thr	Met	Ala	Ala	Leu 190	Gly	Lys
50	Asp	His	Val 195	Asp	Ile	Val	Ala	Phe 200	Asp	Lys	Lys	Tyr	Lys 205	Ser	Ala	Phe
	Asn	Lys 210		Ala	Ser	Ser	Met 215	Gly	Lys	Glu	Glu	Leu 220	Arg	His	Arg	Arg
55	Ala 225	Gln	Met	Pro	Thr	Pro 230	Lys	Ala	Ile	Asp	Cys 235	Arg	Lys	Cys	Phe	Gly 240
60	Ala	Pro	Pro	Glu	Cys 245											

	(2) INFORMATION FOR SEQ ID NO: 355;
5	(1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 35 amino acids (B) TYPE: amino acid (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 355:
10	(XI) SEQUENCE DESERTPTION: SEQ ID NO: 355:
	Met Lys Phe Ser Lau Leu Phe Leu Pro Mat Leu Lau Ile Lau Lys Pro 1 10 15
15	Asp Lou Phe His Ile Ser (le Cys Thr Leu Ala Ala Cys Gly Leu Thr 20 25 30
	Phe Pro Xaa 35
20	
	(2) INFORMATION FOR SEQ ID NO: 356:
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 22 amino acids (B) TYPE: amino acid (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 356:
30	Met Leu Phe Phe Phe Ilo Leu His Leu Leu Ser Ile Met Ser Phe Leu 1 5 10 15
35	Ser Pro Asp Ile Mot Xaa 20
	(2) INFORMATION FOR SEQ ID NO: 357:
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 98 amino acids (B) TYPE: amino acid (D) TOPOLOGY: linear (X1) SEQUENCE DESCRIPTION: SEQ ID NO: 357:
45	
	Met Phe Sly Len Len Val Slu Der Sin Thr Leu Leu Slu Slu Ach Ala 2 5 10 15
50	Val Gln Gly Thr Glu Arg Thr Leu Giy Leu Asn Ile Ala Pro Phe Ile 20 25 30
	Aon Gin Phe Gin Val Pro Ile Arg Val Phe Leu Anp Leu Ser Ser Leu
60	Methodo in Tyr Lea All Harl Fladd Ara (L. Valida, Valida, Valida, Valida)

Cys Xaa Ile Trp Glu Acp Leu Thr Ala Ile Pro Phe Trp Val Ser Tyr 85 90 Val Pro 5 (2) INFORMATION FOR SEQ ID NO: 358: 10 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 78 amino acids (B) TYPE: amino acid (D) TOPOLOGY: linear 15 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 358: Met Phe Gly Ala His Arg Kaa Trp Gln Gly Ser Val Leu Leu Phe Leu 10 20 Ser Phe Ala Trp Gly Ash Gly Gly Ser Val Thr Phe Ser Asp Val Pro Arg Val Met Pro Leu Ala Gly Gly Pro Xaa Xaa Gln Val Ser Ser Thr 40 25 Pro Arg Pro Pro Pro His Gln Val Thr Ser Ser Pro Gly Leu Glu Ser Ala His Ile Val Cys Pro Glu Arg Lys Lys Lys Lys Lys 30 70 (2) INFORMATION FOR SEQ ID NO: 359: 35 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 31 amino acids (B) TYPE: amino acid (D) TOPOLOGY: linear 40 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 359: Thr Leu Leu Xaa Phe Leu Xaa Leu Leu Thr Thr Glu Gly Gly Arg Glu 45 Asn Ile Phe Kaa Sly Arg Ile Leu Kaa Leu Gln Kaa Ser Pro Kaa 20 25 50 (2) INFORMATION FOR SEQ ID NO: 360: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 57 amino acids (B) TYPE: amino acid 55 (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 360: Met Leu Ser Phe Phe Ile Cys Leu Leu Ile Phe Val His Leu Leu Leu 10 60

	Lou Ser Phe Leu Ile Ser App Trp Pro Pro Pro Thr Gly Ser Ala Xaa 20 - 25 - 30	
5	His Lys Ile Leu Arg Leu Met Val Val Gln Arg Leu Ser Leu Leu Anp 35 40 45	,
	Gln Arg Lys Arg Trp Ser Glu Ala Kaa 50	
10	()) THEODMORION FROM CHAIN TO NO. 261	
	(2) INFORMATION FOR SEQ ID NO: 361:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 3 amino acids (B) TYPE: amino acid (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 361:	
20	Lys Tyr Xaa 1	
25	(2) INFORMATION FOR SEQ ID NO: 362:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 32 amino acids (B) TYPE: amino acid (D) TOPOLOGY: linear	
	(xi) SEQUENCE LESCRIPTION: SEQ ID NO: 362:	
35	Trp Ser Ser Ala Ser Ser Ser Trp Val Thr Thr Pro Glu Arg Ile Arg 1 5 10 15	i
	Pro Arg Met Asp Thr Leu Pro Val Lys Gly His Phe Leu Ser Met Xaa 20 25 30	•
40		
45	(C) INFORMATION FOR SED ID NO: 363:	
	(i) DETUENTE CHARACTERICTICA. (A) LENGTH: 28 amino acids (B) TYPE: amino acid (D) TOPOLOGY: linear	
50	(xi) SEQUENCE PESCRIPTION: SEQ ID NO: 363:	
	Asp lie Phe Vul Phe Leu Leu Ser Thr Ard Ala Gly Gly Leu Gly Ils	

			(i)	SEQU	ENCE	CH2	RACI	ERIS	TICS	:						
					(A) I	LENGT	CH:]	.5 am	nino	acio	is					
5								.no a								
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			(X1)	SEÇ	UENC	E DE	SCRI	PTIC	N: S	EQ I	D NC	: 36	4:			
	Thr	Leu	Thr	Ser	Phe	Leu	Glu	Leu	Pro	Leu	Ala	Pro	Glu	Pro	Xaa	
	1				5					10					15	
)																
	(2)		05141													
	(2)	11/11	OFMA	TTOM	FOR	SEQ	ID.	NO:	365:							
5			(i)	SECU	ENCE	CHA	.RACT	ERIS	ጥፐርና							
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,			(xi)	SEQ	UENC	E DE	SCRI	PTIO	N: S	EQ I	D NO	: 36	5 :			
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	1		و سدم	خيد	1.1e	1111	rne	Phe	ьys	Cys 10	rne	arg	ser	val	11e 15	Leu
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	Asp	Leu	Leu	Phe	Ile	Leu	Ser	Pro	Leu	Ser	Gln	Gly	Cys	Phe	Ile	Leu
,				20					25					30		
	Dha	Vas														
	Pne	Xaa														
	(2)	INF	ORMA'	rion	FOR	SEQ	ID 1	NO: :	366:							
			(i)	SECUI	ENICE	CHA	D 1 CM	ERIS'	mrcc	_						
5								6 am			s					
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								lin								
			(xi)	SEQ	UENC:	E DE	SCRI	PTIO	N: S	EQ I	D NO	: 36	6 :			
	Met	Phe	Glv	Phe	Ile	Phe	Leu	Leu	Leu	Tle	Phe	Cve	Tla	Yaa	Lau	Circ
	1		1		5			ــــــــــــــــــــــــــــــــــــــ	Deu	10	1110	C Y S	116	nad	15	Cys
	Ser	Arg	Thr		Ser	Thr	Phe	Ile	Pro	Lys	Leu	Val	Gly	Phe	Leu	Tyr
				20					25					30		
	רגים	Tve	Dha	Sar	T10) an	Lou	C==	T -0	T	¥	ml		- 1-		_
	111	Lys	35	ser	116	ASH	Leu	Ser 40	Leu	Leu	Leu	Thr	ьеч 45	lie	Lys	Lys
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)	Lys	Lys	Lys	Lys	Lys	Lys	Thr	Pro	Arg	Gly	Gly	Pro	Gly	Xaa	Gln	Ser
		50				•	55		.,	-	-	60	-			
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	Pro 65	Pro														
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	(2)	INF	ORMAT	CICN	FOR	SEQ	I CI	NO: 3	867 :							
			(1) 5					ERIS								
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(B) TYPE: amino acid

(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 367:

			1,112,	E-E-A	CLAIC	L L1,	JC1.1			ro I	D 140	, , , , ,	<i>'</i> .			
5	Mert l		Gly	Leu	Gly 5	Arg	Pro	Arg	Gln	Ala 10	Arg	Trp	Thr	Leu	Met 15	Leu
10	Leu	Leu	Ser	Thr 20	Ala	Met	Tyr	Gly	Ala 25	His	Ala	Pro	Leu	Leu 30		Leu
	Cys	His	Val 35	Asp	Gly	Arg	Val	Pro 40	Phe	Arg	Pro	Ser	Ser 45	Ala	Val	Leu
15	Leti	Thr 50	Glu	Leu	Thr	Lys	Leu 55		Leu	Cys	Ala	Phe 60	Ser	Leu	Leu	Val
	Gly 65	Trp	Gln	Ala	Trp	Pro 70	Gln	Glγ	Pro	Pro	Pro 75	Trp	Arg	Gln	Ala	Ala 80
20	Pro	Phe	Ala	Leu	Jer 85	Ala	Leu	Leu	Tyr	Gly 90	Ala	Asn	Asn	Asn	Leu 95	Val
25	Ile	Tyr	Leu	Gln 100	Arg	Tyr	Met	Asp	Pro 105	Ser	Thr	Tyr	Gln	Val 110	Leu	Ser
	Asn	Leu	Lys 115	Ile	Gly	Ser	Thr	Ala 120	Val	Leu	Тут	Cys	Leu 125	Cys	Leu	Arg
30	His	Arg 130	Leu	Ser	Val	Arg	Gln 135	Gly	Leu	Ala	Leu	Leu 140	Leu	Leu	Met	Ala
	Ala 145	Gly	Ala	Cys	Tyr	Ala 150	Ala	Gly	Gly	Leu	Gln 155	Val	Pro	Gly	Asn	Thr 160
35	Leu	Pro	Ser	Pro	Pro 165	Pro	Ala	Ala	Ala	Ala 170	Ser	Pro	Met	Pro	Leu 175	His
40	Ile	Thr	Pro	Leu 180	Gly	Leu	Leu	Leu	Leu 185	Ile	Leu	Tyr	Cys	Leu 190	Ile	Ser
	Gly	Leu	Ser 195	Ser	Val	Tyr	Thr	G1u 200	Leu	Leu	Met	Lys	Arg 205	Sln	Маа	Leu
45	Pro	Leu 213	Ala	Leu	Oln	Asn	Leu 215	Phe	Leu	מיעיז'	Thr	Ph/2 220	Gly	Val	Leu	Leti
	Asn 225	Leu	Gly	Leu	His	Ala 230	Gly	Gly	Glγ	Ser	Gly 235	Pro	Gly	Leu	Lou	Ğiu 240
50	Gly	Phe	Ser	Gly	Trp 245	Ala	Ala	Leu	Val	Val 250	Leu	Ser	Gln	Ala	Leu 255	Asn
	1.4	T	٠, ,,					٠, ,								

 $^{60^{\}circ}$. Val Lem Lem Arm Lem Sim Lem Thr Ala Ala Phe Phe Lem A.a fin Lem $_{120}$. $_{120}$

	Leu 305	Ile	Gly	Leu		Met 310	Arg	Leu	Tyr		Gly 315	Ser	Arg					
5																		
	(2)	INFC	RMAT	'ION	FOR	SEQ	ID N	iO: 3	68:									
0				(E	A) LE B) TY D) T(ING PH (PE :)POL(H: 3: amir DGY:	l am: no ac line	nno a cid ear	acide		: 368	3:					
15	Met 1	Gly	Glu	Gln	Pro 5	His	Phe	Ser	Leu	Cys 10	Val	Leu	Leu	Ala	Ala 15	Val		
20	Arg	Glu	Asp	Хаа 20	Asp	Pro	Xaa	Val	Phe 25	Pro	Cys	Cys	Phe	Leu 30	Kaa			
	(2)	INFO	RMAT	TON	FOR	SE ₂	ID N	JO: 3	169:									
25			(i) S	(I	A) LI 3) Ti	ENCTI PPE:	H: 4. ami	ERIST 3 am no a lin	ino a		5							
30			(xi)	SEQU						EQ II	ON C	: 369) :					
	Met 1	Ser	Phe	Ile	Ala 5	Leu	His	Pro	Leu	Leu 10	Pro	Glu	Ala	Ala	Leu 15	Gly		
35	Val	Pro	Gly	Gln 20	Ser	Pro	His	Arg	Pro 25	Leu	Trp	Gln	Thr	Gln 30	Cys	Cys		
	Val	Ala	Pro 35	Pr.o	Gln	Pro	Arg	Ala 40	Glu	Phe	Xaa							
40																		
	(2)	INF	ORMAT	NOIT	FOR	SEQ	ID 1	NO: 3	370:									
45				(A) Li B) T D) T	ENGT YPE : OPOL	H: 2 ami OGY:	55 a no a lin	mino cid ear	aci		: 37	0 :					
50	Met	Val		Ala										Leu	Leu	His		
	1				5					10					15			
55	Ala	Glu	Arg	Ile 20	Ser	Leu	Val	Phe	Leu 25	Leu	Leu	Phe	Leu	Gln 30	Ser	Phe		
J J	Leu	Leu	Leu 35	His	Leu	Leu	Ala	Ala 40	Gly	Ile	Pro	Val	Thr 45	Thr	Pro	Gly		
60	Pro	Phe so	Thr	Val	Pro	Trp	Gln	Ala	Val	Ser	Ala	Trp	Ala	Leu	Met	Ala		

	Thr 65	Gln	Thr	Phe	Tyr	Ser 70	Thr	Gly	His	Gln	Pro 75	Val	Phe	Pro	Ala	ile 80
5	His	Trp	His	Ala	Ala 35	Phe	Val	Sly	Phe	Pro 90	Glu	Gly	His	Gly	Ser 95	Суя
10	Thr	Trp	Leu	Pro 100	Ala	Leu	Leu	Val	Gly 105	Ala	Asn	Thr	Phe	Ala 110	Šer	His
	Leu	Leu	Phe 115	Ala	Val	Gly	Cys	Pro 120	Leu	Leu	Leu	Leu	Trp 125	Pro	Phe	Pesn
15	Cys	Glu 130	Ser	Gln	Gly	Leu	Arg 135	Lys	Arg	Gln	Gln	Pro 140	Pro	Gly	Asn	Glu
	Ala 145	Asp	Ala	Arg	Val	Arg 150	Pro	Glu	Glu	Glu	Glu 155	Glu	Pro	Leu	Met	Glu 160
20	Met	Arg	Leu	Arg	Азр 165	Ala	Pro	31n	His	Phe 170	Tyr	Ala	Ala	Leu	Leu 175	Gln
25	Leu	Gly	Leu	Lys 180	Tyr	Leu	Phe	He	Leu 185	Gly	Ile	Gln	Ile	Leu 190	Ala	Cys
	Ala	Leu	Ala 195	Ala	Ser	Ile	Leu	Arg 200	Arg	His	Leu	Met	Val 205	Trp	Lys	Val
30	Phe	Ala 210	Pro	Lys	Phe	Ile	Phe 215	Glu	Ala	Val	Gly	Phe 220	Ile	Val	Ser	Ser
	Val 225	Gly	Leu	Léu	Leu	Gly 230	Ile	Ala	Leu	Val	Met 235	Λrg	Val	Asp	Gly	Ala 240
35	Val	Ser	Ser	Trp	Phe 245	Arg	Gln	Leu	Phe	Leu 250	Ala	Gln	Gln	Arg	Xaa 255	
40	(2)	INFO	ORMAT	MOI	FOR	SEQ	ID 1	4 0: ∃	371:							
15				(.	A) L P) T D) T	ENGT YPE: OPCL	H: 2 ami OGY:	ño a Lin	ino cid ear	: acid EQ II		: 37.	1 :			
yo,	Met 1	Xaa	Gly	Pro	Trp 5	Gly	Glu	Glu	Ala	Leu 10	Πle	Arg	Leu	Prò	Thr	Pro
50	Ser	Gly	Leu	Хаа 20												

1 CELENCE CHARACTERISTICS. (A) LENGTH: 64 umino acido (f) THEF- min. (c) i

 $S_{k} = \{ e_{k} \mid e_{k} \in A \mid k \in A \}$

(D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 372: Met Ala Thr Leu Glu Xaa Asp Glp Arg Clu Wal Asp Clu															
5	Met Ala Thr Leu Glu Xaa Asn Gln Arg Glu Val Asp Arg Glu Ile Arg 1 5 10 15														
	Ser Leu Leu Trp Phe Leu Leu Cys Glu Ile Val Ser Gly Trp Leu 20 25 30														
10	Cys Pro Glu Gly Pro Trp Phe Ser Gln Gly Cys Gln Ile Tyr Lys Asn 35 40 45														
15	Leu Ser Ser Ser Ser Tyr Asn Leu Ser Phe Leu Leu Ser Leu Xaa 50 55 60														
20	(2) INFORMATION FOR SEQ ID NO: 373: (i) SEQUENCE CHARACTERISTICS:														
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 40 amino acids (B) TYPE: amino acid (D) TOPOLOGY: linear (xi) JEQUENCE DESCRIPTION: SEQ ID NO: 373:														
30	Met Ile His Ser Gly Cys Thr Ser Gln Cys Leu Glu Gly Phe Phe Leu 1 5 10 15														
35	Ile Phe Leu Asp Phe Asn Pro Val Leu Ala Leu Asp Leu Ile Gly 20 25 30 Ile Met Arg Lys Ala Ser His Xaa 35 40														
40	(2) INFORMATION FOR SEQ ID NO: 374:														
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 35 amino acids (B) TYPE: amino acid (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 374:														
50	Met Val Phe Ser Ala Arg Val Ser Leu Tyr Thr Arg Phe Lys Val Ile 15 Leu Leu Ser Leu Leu Ile Met Ile Leu His Val Cys Trp Val Trp Val 25														
55	Ile Leu Xaa 35														

(2) INFORMATION FOR SEQ ID NO: 375:

```
(1) SEQUENCE CHARACTERISTICS:
                     (A) LENGTH: 11 amino acids
                     (B) TYPE: amino acid
                     (D) TOPOLOGY: linear
  5
              (x1) SEQUENCE DESCRIPTION: SEQ ID NO: 375:
      Gly Leu Leu Tyr Ile Met Tyr Cys Asn Ile Xaa
 10
      (2) INFORMATION FOR SEQ ID NO: 376:
             (i) SEQUENCE CHARACTERISTICS:
 15
                    (A) LENGTH: 64 amino acids
                     (B) TYPE: amino acid
                    (D) TOPOLOGY: linear
              (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 376:
20
      Met Asn Asn Gly Leu Leu Gln Gln Pro Ser Ala Leu Met Leu Leu Pro
                                         10
      Cys Ard Pro Val Leu Thr Ser Val Ala Leu Asn Ala Asn Phe Val Ser
                         25
25
      Trp Lys Ser Arg Thr Lys Tyr Thr Ile Thr Pro Val Lys Met Arg Lys
      Ser Gly Gly Arg Asp His Thr Gly Gly Asn Lys Asp Arg Gly Ile Xaa
30
                              55
35
      (2) INFORMATION FOR SEQ ID NO: 577:
             (i) SEQUENCE CHARACTERISTICS:
40
                    (A) LENGTH: 19 amino acids
                    (B) TYPE: amino acid
                    (D) TOPOLOGY: linear
             (K1) SEQUENCE DESCRIPTION: SEQ ID NO: 377:
45
     Mot Arg Lys Gin Arg Lew Val Pro Mot Tyr Lew Gly Low Ho Tyr 110
                                        10
     Leu Lou Xaa
50
      (2) INFORMATION FOR ORD IN the state
```

TAR DESTRICTION OF IDEA (**)

```
Met Arg Gln His Xaa
       1 5
  5
       (2) INFOFMATION FOR SEQ ID NO: 379:
             (i) SEQUENCE CHARACTERISTICS:
                    (A) LENGTH: 17 amino acids
 10
                    (B) TYPE: amino acid
                    (D) TOPOLOGY: linear
             (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 379:
      Leu Leu Pro Val Leu Ala Ser Ser Val Pro Ser His Ser Ala Thr
 15
                                        10
      Xaa
20
      (2) INFORMATION FOR SEQ ID NO: 380:
             (i) SEQUENCE CHARACTERISTICS:
25
                    (A) LENGTH: 84 amino acids
                    (B) TYPE: amino acid
                   (D) TOPOLOGY: linear
             (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 380:
30
      Met Leu Pro Leu Leu Peu Thr Tyr Leu Asn Ser Phe Leu His Gln
                                        1.0
      Arg Ile Pro Gln Ser Val Arg Ile Leu Gly Ser Leu Val Ala Ile Leu
                                     25
                                                       30
35
      Leu Val Phe Leu Ile Thr Ala Ile Leu Val Lys Val Gln Leu Asp Ala
                  40
     Leu Pro Phe Phe Val Ile Thr Met Ile Lys Ile Val Leu Ile Asn Ser
40
                             55
     Phe Gly Ala Ile Leu Gln Gly Ser Leu Phe Gly Leu Ala Gly Leu Leu
                     70
45
     Pro Ala Ser Xaa
50
      (2) INFORMATION FOR SEQ ID NO: 381:
            (i) SEQUENCE CHARACTERISTICS:
                  (A) LENGTH: 21 amino acids
                   (B) TYPE: amino acid
55
                   (D) TOPOLOGY: linear
            (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 381:
     Met Lys Leu Ser Leu Phe Leu Ile Leu Ser Asp Val Phe Tyr Leu Gly
      1 5
                                10
60
```

Ser Pro Maa Thr Maa 20

5

10

(2) INFORMATION FOR SEQ ID NO: 382:

(1) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 29 amino acids
- (B) TYPE: amino acid
- (D) TOPOLOGY: linear
- (xt) SEQUENCE DESCRIPTION: SEQ ID NO: 382:
- Mot Gly Th: Arg Arg Lys Gly Val Ala Trp Leu Ser Leu Ala Pro Leu 15

The Throlly Lou Ala Pro Ala His The Thr Ala Val Xaa 20 25

20

- (2) INFORMATION FOR SEQ ID NO: 383:
- (1) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 34 amino acids
 - (B) TYFE: amino acid(C) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 383:
- Met Lys Acp Lou Leu Gln Arg Asn Pro Trp Lys Asn Ser Leu Leu Leu 1 5 10 15

Leu Gl
n Val Cys Cl
n Ala Phe Leu Val Cys Ser Leu Thr Gl
n Leu Ala 20 \$25\$ 30

35 Val Xaa

40

45

Λ = 1 0 - Λ

- (2) INFORMATION FOR SEQ ID NO: 384:
 - (i) DEQUENCE CHAFACTERISTICS:
 - (A) LENGTH: 47 amino acids
 - (F: TYPE: amino acid
 - (D) TOPOLOGY: linear
 - (X.) DEQUENCE DESCRIPTION: SEQ ID NO: 384:
- 50 Met Ser Glu Jer His Lys Ile Trp Trp Cys Tyr Arg His Leu Ala Phe 1 5 10 15

Pro Leu Leu Thr Leu fie Leu Thr Pro Ala Thr Leu Gly Arg Ser Val

 60° . (3) information for Jepu in $_{\rm H}$ 38%;

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 25 amino acids (B) TYPE: amino acid (C) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 385:
10	Met Leu Asn Arg Ile Met Val Ala Ser Phe Gly Ala Val Leu Val Glr 1 5 10 15 Val Cys Arg Gly Xaa Gly Gin Gly Xaa 20 25
15	(2) INFORMATION FOR SEQ ID NO: 386:
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 63 amino acids (B) TYPE: amino acid (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 386:
25	Met Gln Leu Leu Leu Gly Leu Ile Arg Ser Gln Pro Ser Pro Pro 1 5 10 15
	Pro Ser Leu Cys Leu Met Leu Cys Pro Cys Leu Pro Cys Leu Arg Tyr 20 25 30
30	Ser Pro Phe Val Pro Gln His Pro Cys Pro Leu Pro Leu Asp Leu Cys 35 40 45
35	Leu Ala Gly Cys Ser Ser Leu Ser Val Gln Asp Lys Cys Ser Trp Pro 50 55 60 Tyr Pro Ile Xaa 65
40	(2) INFORMATION FOR SEQ ID NO: 387:
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 34 amino acids (B) TYPE: amino acid (D) TOPCLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 387:
50	Lys Glu Phe Phe Val Phe Leu Phe Val Cys Leu Phe Trp Leu Leu Ser 1 5 10 15
	Asn Thr Pro Leu Thr Phe Ile Ser Ile Ile Leu Gln Arg Lys Glu Thr 20 25 30
55	Asn Xaa

(2) INFORMATION FOR SEQ ID NO: 388:

		(1)	SEÇ	MEMC	E CF	IAPAC	TERI	STIC	S:						
				(A)	LENG	STH:	14 a	ımını	aci	.do					
_				(B)	TYPE	E: an	nino	adio	1						
5						DLOGY									
		(Xí) Sh	ÇUEN;	CE D	ESCR	IPTI	O11:	SEQ	ID N	Kiri 3	88:			
10	Ser Ph	e Le	u Me	t Va	l L⊕ 5	u Va	1 11	e Le	u Al. 1		a Se	r Pr	o Xa	a	
	(2) IN	FOFM	ATIG	A FOR	R SEC	Q ID	NO:	389	:						
1.5		(i)	SEQ	UENE:	E CH	AFAC'	TERT	STIC	c.						
									o. cids						
						: am									
						LOGY									
		txi) (TE)						SEQ	ID N	7 - 7	8G.			
20											J. J	.,,,			
	1			I.)				10)					
25															
	(2) IM	ORMA	TION	I FOR	o#c	מד (· O14	300.							
								550.							
		(i)	SEQU	JEINCE	CHA	AF.AC1	ERIS	TICS	3:						
30									o ac:	ds					
30				(B) 7											
				(D) 1											
		(XI)	SEÇ	UENC	E DE	SCRI	PTIC	N: S	SEQ I	D NC): 35) ·			
	Met Thr	· Ivs	A1.a	D m m	1	Dho	5 sec								
35	Met Thr 1	2,0	11,1,4	- Arg	Lieru	File	Arg	Leu	11p 10	Leu	Val	Leu	Gly		
									I.					15	
	Phe Met	Ile	Leu	Leu	Ile	Lle	Val	Tyr	Trp	Asp	Ser	Ala	Glv	Ala	Ala
			20					25		•			30		
40	tti- ra														
40	His Phe	. "Г.У.Т.	Leu	His	Thr	Ser	Phe	Ser	Arg	Pro	His	Thr	Gly	Pro	Pro
		35					4 0					45			
	Lou Pro	Thr	Faro	Olive	Livery	Acn	Ara	A com	3	01		a:			
	Lou Pro 50			0.1	,	- 55 - 55	Arq	A.sp	Arg	GIU	ueu ⊖e	Thr	Aid	Asp	Ser
45											OSI				
	Asp Val	App	Kaa	Phy	, e e ()	Апр	Каа	Phy	Leu	Jun.	Ali	315	45a 1	1 22-2	(1) n
	65				20	_				75		0.7		273	80
50	Ser Asp	Xaa	Pro	Arg	$\Gamma^{r_{\alpha}}$	Glu	Thr	Glu	Gln	Pro	Pro	Ala	Fro	Gly	Ser
5/0				35					90					25	
	Met Glu	1:7	Car	***		V	(T)								
	Met Glu	7	. U.C	V.11	A보딩	лаа	ryr	ASP	Trp	Ser	Pro	Ara	Хаа	Ala	Arq
	AT I		t	11 -	2. 1.4	$i^*i \to$	Ali	11:11	Eta		1110	}'L	A: :	:	Ala
60	2 * -					1 +=-					117				

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His Ser Thr Thr Ser Pro Thr Arg Ser Xaa
             150
5
     (2) INFORMATION FOR SEQ ID NO: 391:
            (i) SEÇUENCE CHARACTERISTICS:
                   (A) LENCTH: 9 amino acids
10
                   (B) TYPE: amino acid
                   (D) TOPCLOGY: linear
             (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 391:
     Met Val Leu Leu Gly Leu Leu Ser Xaa
15
     (2) INFORMATION FOR SEQ ID NO: 392:
20
            (1) SEQUENCE CHARACTERISTICS:
                   (A) LEMOTH: 61 amino acids
                   (B) TYPE: amino acid
                   (D) TCPCLOGY: linear
25
            (x1) SEQUENCE DESCRIPTION: SEQ ID NO: 392:
     Met Cys Ile His Val Phe Met Xaa Val Leu Trp Val Leu Phe Leu Leu
                          10
30
     Asn Pro Leu Cys Thr Gly Leu Trp Pro Leu Xaa Asn Cys Phe Ser Val
     Leu Arg His Ala Asp Trp Val Leu Gly Ala Asp Tyr Lys Gly Glu Glu
35
     Leu Asn Arg His Glin Gly Pro Met Lys Pro Lys Asp Xaa
40
      (2) INFORMATION FOR SEQ ID NO: 393:
             (i) SEQUENCE CHARACTERISTICS:
                   (A) LENCTH: 447 amino acids
45
                   (B) TYPE: amino acid
                   (D) TOPOLOGY: linear
             (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 393:
     Met Leu Gly Leu Leu Met Ala Ala Cys Phe Thr Phe Cys Leu Ser
50
      1 5
     His Gln Asn Leu Lys Glu Phe Ala Leu Thr Asn Pro Glu Lys Ser Ser
                                    25
55
     Thr Lys Glu Thr Glu Arg Lys Glu Thr Lys Ala Glu Glu Glu Leu Asp
                    40
     Ala Glu Val Leu Glu Val Phe His Pro Thr His Glu Trp Gln Ala Leu
60
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	Gln 65	Pro	Gly	Gln	Ala	70 70	Pro	Ala	Gly	Ser	His 75	Val	Arş	Leu	AZE	Leu Põ
5	Gln	Thr	Gly	Glu	Arg 85	Glu	Ala	Lys	Leu	Gln 90	Tyr	Glu	Yap	Lyta	Phe 25	y ⊼ å
	Asn	Asn	Leu	Lys 100	Gly	Lys	Arg	Leu	Asp 105	Ile	Asn	Thr	Asn	Thr 110		Tax
10	Ser	Gln	Asp 115	Leu	Lys	Ser	Ala	Leu 120	Ala	Lys	Phe	Lys	61u 125	Gly	Ala	slu
15	Met	Glu 130	Ser	Ser	Lys	Glu	Asp 135	Lys	Ala	Arg	Ğİn	Ala 140	Glu	Val	Lys	253
	Leu 145	Phe	Arg	Pro	He	Glu 150	Glu	Leu	Lys	Lys	Asp 155	Phe	Asp	Glu	161	Asn 160
20	Val	Val	Ile	Ğlu	Thr 165	Asp	Met	Gln	↓le	мес 170	Val	Arg	Leu	lle	A25. 175	Ly5
	Phe	Asn	Ser	Ser 130	Ser	Ser	Ser	Leu	Glu 185	Glu	Lys	Ile	Ala	Ala 190	160	Pha
25	Asp	Leu	Glu 195	Tyr	Tyr	Val	His	Gln 200	Met	Asp	Asn	Ala	Gln 205	Asp	lei	Leu
30	Ser	Phe 210	Gly	Gly	Leu	Gln	Val 215	Val	Ile	Asn	Gly	Leu 220	Asn	Ser	Thr	314
	Pro 225	Leu	Val	Lys	Glu	Тут 230	Ala	Ala	Phe	Val	Leu 235	Gly	Alla	Ala	Pha	387 240
35	Ser	Asn	Pro	Lys	Val 245	Gln	Val	GLu	Ala	11e 250	Glu	Gly	Gly	Ala	1a1 359	Gln
	Lys	Leu	Leu	Val 260	Ile	Leu	Ala	Thr	Glu 265	Gln	Pro	Leu	<u> </u>	Ala 270	Lys	lys
40	Lys	Val	Leu 275	Phe	Ala	Leu	Cys	Ser 280	Leu	Leu	Arg	His	Phe 285	Pro	Tyr	Ala
45	Gln	Arg 290	Gln	Phe	Leu	Lys	Lep 295	Gly	Gly	Leu	Gln	Val 30+	í.÷u	Arg	73.5	le:
	Val 305	Gln	-31u	Lys	325	Thr 310	Glu	Val	Leu	Ala	Val 315	Arg	Val	Val	7.2	12u 320
50	Leu	Туг	Asp	Leu	Val 325	Thr	Glu	Lys	Met	Phe 330	Ala	Glu	Glu	Glu	Ala 335	Glu
	Leu	Thr	Gln	;lu	Met	Ser	Pro	Glu	Lys	Leu	Gln	Gln	Tyr	Ara	G.F	Val

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	Thr Leu Gly Val Leu Leu Thr Inr Cys Arg Asp Arg Tyr Arg Sln Asp 385 390 595 400
5	Pro Gln Leu Gly Arg Thr Leu Ala Ser Leu Gln Ala Glu Tyr Gln Val 405 410 415
	Leu Ala Ser Leu Glu Leu Gln Asp Gly Gly Asp Gly Gly Tyr Phe Gin 420 425 430
10	Glu Leu Leu Gly Ser Val Abn Ser Leu Leu Lys Glu Leu Arg Xaa 435 440 445
15	(2) INFOPMATION FOR SEQ ID NO: 394:
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 amino acids (B) TYPE: amino acid (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 394:
25	Met Val Ile Ser Tyr Val Thr Phe Thr Pro Val Ser Ala Asp Cys Phe 1 5 19 15
	Phe Asn Val Leu Val Cys Phe Kaa 20
30	(2) INFORMATION FOR SEQ ID No: 395:
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 amino acids (B) TYPE: amino acid (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 395:
40	Glu Leu Leu Phe Leu Leu Ile Ile Ile Leu Gly Glu Ser Leu Ser Asp 1 5 10 15
	Val Ile Leu Leu Ile Cys Phe Maa 20
45	(2) INFORMATION FOR SEC ID NO. 386.
50	(2) INFORMATION FOR SEQ ID NO: 396: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 35 amino acids (B) TYPE: amino acid (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 396:
55	Met Phe Tyr Trp Gly Gly Leu Ser Phe Tyr Phe Leu Leu Ser Ser Gly 1 5 10 15
60	Val Gly Phe Tyr Cys Phe Leu Phe Gly Phe Gly Met Glu Ile Trp Ile 20 25 30

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Ala Ala Kaa
 5
      (2) INFORMATION FOR SEQ ID NO: 397:
            (i) SEQUENCE CHARACTERISTICS:
                   (A) LENGTH: 3 amino acids
10
                   (B) TYPE: amino acid
                   (D) TCPCLOGY: linear
            (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 397:
     Gly Arg Xaa
15
     1
     (2) INFORMATION FOR SEQ ID NO: 39H:
20
            (i) SEQUENCE CHARACTERISTICS:
                   (A) LENGTH: 25 amino acids
                   (B) TYPE: amino acid
                   (D) TOPOLOGY: linear
25
            (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 398:
     Met Lys Leu Ser Leu Leu Ile Leu Thr Leu Met Gln Arg Tyr Phe Arg
                                        10
30
     Thr Ile Thr Asn Ser Leu Cys Lys Xaa
                20 1:5
35
     (2) INFORMATION FOR SEQ ID NO: 399:
            (i) SEQUENCE CHARACTERISTICS:
                   (A) LFNGTH: 79 amino acids
                   (B) TYPE: amino acid
40
                   (D) TOPOLOGY: linear
            (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 399:
     Met Pro Ala Val Ser Gly Pro Gly Pro Leu Phe Cys Leu Leu Leu Leu
45
     Leu Leu Asp Pro His Ser Pro Glu Thr Gly Cys Pro Pro Leu Arg Arg
     Phe Glu Tyr Lys Leu Ser Phé Lys Gly Pro Arg Leu Ala Leu Pro Gly
50
          35 40
     Ala Gly Tle Pro the Trp Ger His His Gly Gly Glo Gly the Gly Tro
```

No. 1 A mark

5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 400: Met Lys Val Phe Leu Ser Met Pro Phe Leu Val Lou Phe Gln Ser Leu															
10	1		Val Glu		5	Ser	Met	Pro	Phe	Leu 10	Val	Leu	Phe	Gln	Ser 15	Leu
15	(2)	INFO	DF:MAT	CION	FOR	SEQ	ID I	30: 4	101:							
20				(A) L B) T D) T	ENGT YPE : OPOL	H: 2 ami CGY:	ERIS' 57 a no a lin PTIC	mino cid ear	aci		: 40	1:			
25	Met 1	Ala	Ala	Leu	Thr 5	Ser	His	Leu	Gln	Asn 10	Gln	Ser	Asn	Asn	Ser 15	Asn
	Trp	Asn	Leu	Arg 20	Thr	Arg	Ser	Lys	Cys 25	Lys	Lys	Asp	Val	Phe 30	Met	Pro
30	Pro	Ser	Ser 35	Ser	Ser	Glu	Leu	Gln 40	Glu	Ser	Arg	Gly	Leu 45	Ser	Asn	Phe
25	Thr	Ser 50	Thr	His	Leu	Leu	Leu 55	Lys	Glu	Asp	Glu	Gly 60	Val	Asp	Asp	Val
35	Asn 65	Phe	Arg	Lys	Val	Arg 70	Lys	Pro	Lys	Gly	Lys 75	Val	Thr	Ile	Leu	Lys 80
40	Gly	Ile	Pro	Ile	Lys 85	Lys	Thr	Lys	Lys	Gly 90	Cys	Arg	Lys	Ser	Cys 95	Ser
	Gly	Phe	Val	Xaa 100	Ser	Asp	Ser	Lys	Arg 105	Glu	Ser	Val	Суѕ	Asn 110	Lys	Ala
45	Asp	Ala	Glu 115	Ser	Glu	Pro	Val	Ala 120	Gln	Lys	Ser	Gln	Leu 125	ązĄ	Arg	Thr
50	Val	Суs 130	Ile	Ser	Asp	Ala	Gly 135	Ala	Cys	Gly	Glu	Thr 140	Leu	Ser	Val	Thr
50	Ser 145	Glu	Glu	Asn	Ser	Leu 150	Val	Lys	Lys	Lys	Glu 155	Arg	Ser	Leu	Ser	Ser 160
55	Gly	Ser	Asn	Phe	©ys 165	Ser	Glu	Gln	Lys	Thr 170	Ser	Gly	Ile	Ile	Asn 175	Lys
	Phe	Cys	Ser	Ala 180	Lys	Asp	Ser	Glu	His 185	Asn	Glu	Lys	ŢYŦ	Glu 190	Asp	Thr
60	Phe	Leu	Glu	Ser	Glu	Glu	Ile	Gly	Thr	Lys	Val	Glu	Val	Val	Glu	Arg

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			195					200					205			
5	Lys	Glu 210	His	Leu	His	Thr	Asp 215	el1	Leu	Lys	Arg	Gly 220	Ser	Glu	Met	Asp
,	Asn 225	Asn	Cys	Ser	Pro	Thr 230	уга	Lys	qzA	Phe	Thr 235	Gl:	Arp	Thr	Ile	Pro 240
10	Arg	Asn	Thr	Asp	Arg 245	Lys	Lys	Glu	λsn	Lys 250	Pro	Val	Phe	Phe	Gln 355	Gln
	Ile															
15																
	(2) INFORMATION FOR SEQ ID NO: 402: (i) SEQUENCE CHARACTERISTICS:															
20			(1) ;	(A) L	ENGT	H: 4	ERIS 24 au no a	mino		ds					
			(xi)					lin PTIO		EQ II	011 C	: 40	2:			
25	Met 1	Glu	Lys	Gln	ē GAS	Cys	Ser	His	Pro	Val 10	Ile	Cys	Ser	Leu	Ser 15	Thr
30	Met	Tyr	Thr	Phe 20	Leu.	Leu	Gly	Ala	Ile 25	Phe	Ile	Ala	Leu	Ser 30	Ser	Ser
50	Arg	Ile	Leu 35	Leu	Val	Lys	Tyr	Ser 40	Ala	Asn	Glu	Glu	Asn 45	Lys	Tyr	Asp
35	Tyr	Leu 50	Pro	Thr	Thr	Val	Asn 55	Val	Cys	Ser	Glu	Leu 60	Val	Lys	Leu	Val
	Phe 65	Cys	Val	Leu	Val	Ser 70	Pìre	Cys	Val	Ile	Lys 75	Lys	Anp	His	Gln	Ser 80
40	Arg	Asn	Leu	Lys	Tyr 85	Ala	Ser	Trp	Lys	Glu 90	Phe	Ser	ÆÞ	Phe	Met 95	Lys
45	Trp	Ser	He	Pro 100	Ala	Phe	Leu	Tyr	Eh.= 105	Pen	qaA	Asn	Lou	1!- 110	Val	Phe
+3	Tyr	Val	Leu 115	Ser	ij'n.	Leu	Gln	Pro 120	Ala	Met	Ala	Val	11e 125	Phe	Ser	Asn
50	Phe	Ser 130	Ile	Ile	Thr	Thr	Ala 135	Leu	Leu	Phe	Arg	Ile 140	Val	Leu	Lys	Xaa
	Arq	T .511	Aπ	Tisy	• 5.1	4:1::	17.4	21.1	.,.,	i eni	ŗa ₁	The	1,	F*,6	11	7. 7
	Giy	Ara	11 y	Fhe 190	Н1.3	Him	Acq.	Ala		Pne	."eest	Fit "-	•		. `* :	žyta.
				199					135					1		

	Leu	Leu	Phe 195	Arg	Asn	Glu	Cys	Pro 200	Arg	Lys	Asp	Asn	Cys 205	Thr	Ala	Lys	
5	Glu	Trp 210	Thr	Phe	Pro	Glu	Ala 215	Lyp	Trp	Asn	Thr	Thr 220	Ala	Arg	Val	Phe	
	Ser 225	His	Ile	Arg	Leu	Gly 230	Met	Gly	His	Val	Leu 235	Ile	Ile	Val	Gln	Cys 240	
10	Phe	Ile	Ser	Ser	Met 245	Ala	Asn	Ile	Tyr	Asn 250	Glu	Lys	Ile	Leu	Lys 255	Glu	
15	Gly	Asn	Gln	Leu 260	Thr	Glu	Хаа	Ile	Phe 265	Ile	Gln	Азп	Ser	Lys 270	Leu	Tyr	
	Phe	Phe	Gly 275	Ile	Leu	Phe	Asn	Gl ₂ 280	Leu	Thr	Leu	Gly	Leu 285	Gln	Arg	Ser	
20	Asn	Arg 290	Asp	Gln	Ile	Lys	Asn 295	Суп	Gly	Phe	Phe	Tyr 300	Gly	His	Ser	Ala	
	Phe 305	Ser	Val	Ala	Leu	Ile 310	Phe	Vai	Thr	Ala	Phe 315	Gln	Gly	Leu	Ser	Val 320	
25	Ala	Phe	Ile	Leu	Lys 325	Phe	Leu	Asp	Asn	Met 330	Phe	His	Val	Leu	Met 335	Ala	
30	Gln	Val	Thr	Thr 340	Val	Ilė	Ile	Thr	Thr 345	Val	Ser	Val	Leu	Val 350	Phe	Asp	
	Phe	Arg	Pro 355	Ser	Leu	Glu	Phe	Phe 360	Leu	Glu	Ala	Pro	Ser 365	Val	Leu	Leu	
35	Ser	11e 370	Phe	Ile	Tyr	Ası	Ala 375	Ser	Lys	Pro	Gln	Val 380	Pro	Glu	Tyr	Ala	
	Pro 385	Arg	Gln	Glu	Arg	Ile 390	Arg	Asp	Leu	Ser	Gly 395	Asn	Leu	Trp	Glu	Arg 400	
40	Ser	Ser	Gly	Asp	Gly 405	Glu	Glu	Leu	Glu	Arg 410	Leu	Thr	Lys	Pro	Lys 415	Ser	
45	Asp	Glu	Ser	Asp 420	Glu	Asp	Thr	Phe									
50	(2)	INFO	DEMAT	noin	FOR	SEQ	ID 1	10: 4	103:								
50			(i) :	(ENGT YPE:	H: 3 ami:	3 am no a	ino cid	: acid	S						
55	Met			SEQU										Lou	wal	Dha	
	1	110	GIY	Gln	5	Set	2111	гуs	ser.	10	rile	ser.	ASD	rea	15	rne .	
60	Gly	Val	Arg	Glu 20	Leu	Cys	Ala	Gln	Pro 25	Ser	Asp	Pro	Gly	Ser 30	Pro	His	

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(2)	INFORMATION	FOR	SEO	ID	NO:	404:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 80 amino acids
- (B) TYPE: amino acid
- (D) TCPOLOGY: linear
- (x1) SEQUENCE DESCRIPTION: SEQ ID NO: 404%
- Met Val Gln His Ile Gln Pro Ala Ala fieu Ser Leu Leu Ala Gln Trp. 1 5 10 15
 - Ser Thr Leu Vai Glu Glu Leu Glu Ala Ala Leu Glu Leu Ala Phe Tyr 20 25 30
 - Pro Asp Ala Va. Glu Glu Trp Leu Glu Glu Ash Val His Pro Ser Leu 35 40 45
- Gln Arg Leu Gln Xaa Leu Leu Gln Asp Leu Ser Glu Val Ser Ala Pro 50 50 60
 - Pro Leu Pro Pro Thr Ser Pro Gly Arg Asp Val Ala Gln Asp Pro Xaa 65 70 75 80

30

- 35 (2) INFORMATION FOR SEQ ID NO: 405:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 95 amino acids
 - (B) TYPE: amino acid
- 40 (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 405:

Met Leu Aon Gli Gly Tyr lle Arg Lys Ile Ile Leu Ile Ile Ile Leu 1 - 5 - 10

45

- Gly Ser Phe Ser Ser Pro Lys Lys Ala Ile Leu Met Gly Phe Gln Ash 2) 25 30
- Gln Lys Lys Ala Leu Asn Glu Glu Gln Thr Thr Gly Val Pro Met Ser 50 35 40 45

The Ser My Lys Len Ard Pro Ser Ard Ser Leu App Phe Vil Glin Pro

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	(2)	INF	DRMA!	PION	FOR	SEQ	ID I	40: 4	106:										
5			(i)	(A) L B) T	ENGT YPE :	H: 2 ami		mino cid		ds								
10			(xi)	SEQ						EQ II	D NO	: 40	6 :						
10	Met 1	Arg	Gly	Pro	Ala 5	Gln	Ala	Lys	Leu	Leu 10	Pro	Gly	Ser	Ala	Ile 15	Gln			
15	Ala	Leu	Val	Gly 20	Leu	Ala	Arg	Fro	Leu 25	Val	Leu	Ala	Leu	Leu 30	Leu	Val			
	Ser	Ala	Ala 35	Leu	Ser	Ser	Val	Val 40	Ser	Arg	Thr	Asp	Ser 45	Pro	Ser	Pro			
20	Thr	Val 50	Leu	Asn	Ser	His	Ile 55	Ser	Thr	Pro	Asn	Val 60	Asn	Ala	Leu	Thr			
25	His 65	Glu	Asn	Gln	Thr	Lys 70	Pro	Ser	Ile	Ser	Gln 75	Ile	Ser	Thr	Thr	Leu 80			
	Pro	Pro	Thr	Thir	Ser 85	Thr	Lys	Lys	Ser	Gly 90	Gly	Ala	Ser	Val	Val 95	Pro			
30	His	Pro	Ser	Pro 100	Thr	Pro	Leu	Ser	Gln 105	Glu	Glu	Ala	Asp	Asn 110	Asn	Glu			
	Asp	Pro	Ser 115	Ile	Glu	Glu	Glu	Asp 120	Leu	Leu	Met	Leu	Asn 125	Ser	Ser	Pro			
35	Ser	Thr 130	Ala	Lys	qzA	Thr	Leu 135	Asp	Asn	Gly	Asp	Туг 140	Gly	Glu	Pro	Asp			
40	Туг 145	Asp	Trp	Thr	Thr	Gly 150	Pro	Arg	Asp	Asp	Asp 155	Glu	Ser	Asp	Asp	Thr 160			
	Leu	Glu	Glu	Asn	Arg 165	Gly	Τγτ	Met	Glu	Ile 170	Glu	Gln	Ser	Val	Lys 175	Ser			
45	Phe	Lys	Met	Pro 180	Ser	Ser	Asn	Ile	Glu 185	Glu	Glu	Asp	Ser	His 190	Phe	Phe			
	Phe	His	Leu 195	Ile	Ile	Phe	Ala	Phe 200	Cys	Ile	Ala	Val	Val 205	Tyr	Ile	Thr			
50	Тут	His 210	Asn	Lys	Arg	Lys	11e 215	Phe	Leu	Leu	Val	Gln 220	Ser	Arg	Lys	Trp			
55	Arg 225	Asp	Gly	Leu	Cys	Ser 230	Lys	Thr	Val	Glu	Tyr 235	His	Arg	Leu	Asp	Gln 240			
	Asn	Val	Asn	Glu	Ala 245	Met	Pro	Ser	Leu	Lys 250	Ile	Thr	Asn	Asp	Tyr 255	Ile	-	•	-
60	Phe																		

5	(2)	INFO	DRMAT	NOI,	FOR	SEQ	ID 1	10: 4	107:							
٠,			(i) 5	(.	A) L	enct!	Н: б	ERIS 23 au no a	mino		ds					
10	(D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 407:															
	Met 1	Phe	Met	Arg	Ile 5	Ala	Lys	Ala	Tyr	Ala 10	Ala	Leu	Thr	Asp	Glu 15	Glu
15	Ser	Ar 4	Lys	Asn 20	Trp	Glu	Glu	Phe	Gly 25	Asn	Pro	Asp	Gly	Fro 30	Gln	Ala
20	Thr	zi es gr	Pho 35	Gly	He	Ala	Leu	Pro 40	Ala	Trp	lle	Val	Asp 45	Gln	Lys	Asn
20	Sei	11e 50	Leu	Val	Leu	Leu	Val 55	Tyr	Gly	Leu	Ala	Phe 60	Met	Val	Ile	Leu
25	Pro 65	val	Val	Val	Gly	Ser 70	Trp	Trp	Tyr	Arg	Ser 75	Ile	Arg	Түг	Ser	Gly 80
	Asp	Gln	Ile	Leu	Ile 85	Arg	Thr	Thr	Gln	Ile 90	Tyr	Thr	$T_7\tau$	Phe	Val 95	Tyr
30	Lys	Thr	Arg	Asn 100	Met	Asp	Met	Lys	Arg 105	Leu	Ile	Met	Val	Leu 110	Xaa	Gly
35	Ala	Ser	Glu 115	Phe	Asp	Pro	Gln	Туг 120	Asn	Lys	Asp	ьlа	Thr 125	Ser	Arg	Pro
33	Thr	Asp 130	Asn	Ile	Leu	Ile	Pro 135	Gln	Leu	Ile	Arg	Glu 140	Ile	Gly	Ser	Ile
40	Asn 145	Leu	Lys	Lys	Asn	Glu 150	Pro	Pro	Leu	Thr	Cys 155	Pro	Tyr	Ser	Leu	Lys 160
	Ala	Ara	Val	Lou	Leu 165	Leu	Ser	His	Leu	Aia 170	Arg	Met	Lys	Ile	Pro 175	Glu
45	Thr	Leu	Jiu	31a 180	Αέρ	Gln	Gln	Phe	Met 135	Leu	Lys	Lys	Cys	Pro 190	Ala	Leu
50	Leu	Gln	Glu 195	Met	Val	Asn	Val	Ile 200		Gln	Leu	Ile	Val 205	Met	Ala	Arg
	Asn	Arg 210	Glu	Glu	Atq	Glu	Phe 215	Arg	Ala	Pro	Thr	Leu 220	Ala	Ser	Leu	Glu
																,
60	3. so =				u i i		T	T	7					* .*		
60	Arı	$\triangle J_{\tilde{I}}$:	Asn	Hiii	17:	$-I^{-1}(\gamma)$	Ţ~, · Ţ	Lyn	Tlo		Thr	T :	* . *	S	1.013

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				260					265					270		
5	Val	Ser	Leu 275	Lys	Glu	Ser	Asp	Arg 280	His	Thr	Leu	Leu	His 285	Phe	Leu	Glu
	Asp	Glu 290	Lys	Τγτ	Glu	Glu	Val 295	Met	Ala	Val	Leu	Gly 300	Ser	Phe	Pro	Tyr
10	Val 305	Thr	Met	Asp	Ile	Lys 310	Ser	Gln	Val	Leu	Asp 315	Asp	Glu	Asp	Ser	Asn 320
	Asn	Ile	Thr	Val	Gly 325	Ser	Leu	Val	Thr	Val 330	Leu	Val	Lys	Leu	Thr 335	Arg
15	Gln	Thr	Met	Ala 340	Glu	Val	Phe	Glu	Lys 345	Glu	Gln	Ser	Ile	Cys 350	Ala	Ala
20	Glu	Glu	Gln 355	Pro	Ala	Glu	Asp	Gly 360	Gln	Gly	Glu	Thr	Asn 365	Lys	Asn	Arg
	Thr	Lys 370	Gly	GΙλ	Trp	Gln	Gln 375	Lys	3er	Lys	Gly	Pro 380	Lys	Lys	Thr	Ala
25	Lys 385	Ser	Lys	Lys	Lys	Lys 390	Pro	Leu	Lys	Lys	Lys 395	Pro	Thr	Pro	Val	Leu 400
	Leu	Pro	Gln	Ser	Lys 405	Gln	Gln	Lys	Gln	Lys 410	Gln	Ala	Asn	Gly	Val 415	Val
30	Gly	Asn	Glu	Ala 420	Ala	7al	Lys	Glu	Asp 425	Glu	Glu	Glu	Val	Ser 430	Asp	Lys
35	Gly	Ser	Asp 435	Ser	Glu	Glu	Glu	Glu 440	Thr	Asn	Arg	Asp	Ser 445	Gln	Ser	Glu
	Lys	Asp 450	Asp	Gly	Ser	Asp	Arg 455	Asp	Ser	Asp	Arg	Glu 460	Gln	Asp	Glu	Lys
40	Gln 465	Asn	Lys	Asp	Asp	Glu 47 0	Ala	Glu	Trp	Gln	Glu 475	Leu	Gln	Gln	Ser	Ile 480
	Gln	Arg	Lys	Glu	Arg 485	Ala	Leu	Leu	Glu	Thr 490	Lys	Ser	Lys	Ile	Thr 495	His
45	Pro	Val	Tyr	Ser 500	Leu	Tyr	Phe	Pro	Glu 505	Glu	Lys	Gln	Glu	Trp 510	Trp	Trp
50	Leu	Tyr	Ile 515	Ala	Asp	Arg	Lys	Glu 520	Gln	Thr	Leu	Ile	Ser 525	Met	Pro	Tyr
	His	Val 530	Cys	Thr	Leu	Lys	A sp 535	Thr	Glu	Glu	Val	Glu 540	Leu	Lys	Phe	Pro
55	Ala 545	Pro	Gly	Lys	Pro	Gly 550	Asn	Тут	Gln	Tyr	Thr 555	Val	Phe	Leu	Arg	Ser 560
	Asp	Ser	Tyr	Met	Gly 565	Leu	Asp	Gln	Ile	Lys 570	Pro	Leu	Glu	Val	Xaa 575	Lys
60	Phe	Met	Arg	Leu	Lys	Pro	Val	Pro	Glu	Asn	His	Pro	Gln	Trp	Asp	Thr

				580					585					590		
5	Ala	Ile	Glu 595	Gly	qaA	Glu	Asp	Gln 600	Glu	Asp	Ser	Glu	Gly 605	Phe	Glu	Asp
ζ,	Ser	Phe 610	Glu	Gly	Cly	Arg	Gly 615	Arg	Glu	Glu	Gly	Arg 520	Trp	Trp	Thr	
10	(2)	INFO	DRMA(rion	FOF:	SEQ	ID:	√): 4	1 08:							
15				(A) L B) T D) T	ENGT YPE: OPOL	H: l ami QGY:	90 a no a lin		aci		. 40	α.			
20	Mot 1								Cys					Leu	Ala 15	Ser
	Val	Leu	Leu	Leu 20	Leu	Leu	Leu	Pro	Glu 25	Leu	Ser	Gly	Хаа	Leu 30	Каа	Val
25	Leu	Leu	Gln 35	Ala	Ala	Glu	Ala	Ala 40	Pro	Gly	Leu	Gly	Pro 45	Pro	Asp	Pro
20	Arg	Pro 50	Arg	Thr	Leu	Pro	Pro 55	Leu	Pro	Pro	Gly	Pro 60	Thr	Pro	Ala	Gln
30	Gln 65	Pro	Gly	Arg	Gly	Leu 70	Ala	Glu	Ala	Ala	Gly 75	Pro	Arg	Gly	Ser	Glu 80
35	Gly	Gly	Asn	Gly	Ser 85	Asn	Pro	Val	Ala	Gly 90	Leu	Glu	Thr	Asp	Asp 95	His
	Gly	Gly	Lys	Ala 100	Gly	Ġlu	GĮy	Ser	Val 105	ЗІу	Gly	Gly	Leu	Ala 110	Val	Ser
40	Pro	Asn	Pro	Gly	Asp	Lys	Pro	Met 120	Thr	Gln	Arg	Ala	Leu 125	Thr	Val	Leu
4.5	Met	Val 130	Val	Ser	Gly	Ala	Va1 135	Leu	Val	Tyr	Phe	Val	Val	Arŋ	Thi	Val
45	Arq 145	Ment	Ary	Arg	Arg	Asn 150	Arg	Lys	Thr	Arq	Arg 155	Tyr	Gly	Val	Leu	Asp 160
50	Thr	Asn	Ile	Glu	Asn 165	Met	Glu	Leu	Thr	Pro 170	Leu	Glu	Gln	Asp	Asp 175	Glu
	App	Asp	Asp	Asn	Thr	Leu	Phe	Asp	Ala	Asn	ніз	Pro	Arg	Ara		

A Section A

					31 7											
			(x1)		D) I					=	- 200	. 40	Q .			
			.,,,,						- •	~~ -	2 170	. 40	J .			
5	Met 1	Ser	Pro	Sex	91y E	Arg	Leu	Cys	leu.	Leu 10	Thr	Ile	Val	Gly	15 15	Ile
10	Leu	Pro	Thr	Arg 20	Gly	Gln	The	Leu	1,78 25	ğe.	Thr	Thr	Ser	Ser 30	Ser	Ser
10	Ala	çε£.	Ser 35		ile	Met	Asp	Ile 40		Val	Pro	Thr	Arg 45	Ala	Pro	Asp
15	Ala	Tal 50		īm	9.1	Te.7	Gln 55		Thr	Ser	Pro	Thr 60	Pro	Thr	קדד	Pro
	Ala 65		Ölu	Tar	Pri	בב כר	Pro	Gln	The	Gln	Thr 75	Gln	Gln	Leu	Glu	Gly 80
20	Thr	ÀΞp	Sly	250	Let SS	Val	Thr	Asp	Pro	Glu 90	Thr	His	Lys	Ser	Thr 95	Lys
25	Ala	Ala	His	255 135	The	شت,	Asp	Tar	7.2¥ 105	The	Leu	Ser	Glu	Arg 110	Pro	Ser
	Pro	292	Thr 115		Val	lin	Thr	Asp 120		Glm	Thr	Leu	Lys 125	Pro	Ser	Gly
30	Phe	His 130	31u	ಇಒ್	Am	Pro	Phæ 135	Phe	ĒχΞ	Asp	Glu	His 140	Thr	Leu	Arg	Lys
	Arg 145	Gly	Leu	1 =12	Val	а 150	Ala	∵al	leu	Phe	Ile 155	Thr	Gly	Ile	Ile	Ile 160
35	Leu	Thr	Sex	2.9	Lys 165	0)/3	Arg	Gln	Leu	Ser 170	Arg	Leu	Cys	Arg	Asn 175	His
40	Cha	Arp	Xaa													
40																
	(2)	ENF	O FMA	icsi	FCE	SEQ	ID :	NC: 4	1 10:							
45				:	ENCE A) L B) T D) T	eigt TFE: CPOL	H: 1 ami OGF:	4 am no a lin	ino cid ear	acid						
50	Met 1				UEVS Læi S									Xaa		
55	(0)															
	(2)				FOR ENCE					:						
(0			/	(A) <u> </u>	eggt	H: 2	32 a	rino	aci	ds					
60				1	3) T	199.	2-4	20.2	-: 4							

(B) TYPE: amino acid

(D) TOPOLOWY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 411:

- Met Leu Ala Gly Lyo Leu Ile Pro Val His Gln Val Arg Gly Leu Lys 5 10 Glu Lys Ile Val Arg Ser Phe Glu Val Wer Pro Asp Gly Ser Phe Leu 25 10 Leu Ile Asn Gly Ile Ala Gly Tyr Leu His Leu Leu Ala Met Lys Thr Lys Glu Leu Ile Gly Ber Met Lys Ile Ash Gly Arg Val Ala Ala Ser 15 Thr Phe Ser Ser Asp Ser Lys Lys Val Tyr Ala Ser Sor Gly Asp Gly Glu Val Tyr Val Trp Asp Val Asn Cer Arg Lys Cys Leo Asn Arg Phe 20 Val Asp Glu Gly Ser Leu Tyr Gly Leu Ser Ile Ala Thr Ser Arg Asn 100 105 25 Gly Gln Tyr Val Ala Cys Gly Ser Aon Cys Gly Val Val Aon Ile Tyr 115 120 Asn Gln Asp Ser Cys Leu Gln Glu Thr Aon Pro Lys Pro Ile Lys Ala 30 Ile Met Asn Leu Val Thr Gly Val Thr Ser Leu Thr Phe Asn Pro Thr 145 150 155 160 Thr Glu Ile Leu Ala Ile Ala Ser Glu Lys Met Lys Glu Ala Val Arg 35 165 Leu Val His Leu Pro Ser Cys Thr Val Phe Ser Asn Phe Pro Val Ile 180 185 190 40 Lys Asn Lys Asn Ile Ser His Val His Thr Met Asp Phe Ser Pro Arg Her Bly Tyr Fne Ala Leu Gly Asn Gla Lys Gly Lys Ala Leu Mat Tyr 215 15 Arg Lou His His Tyr Ser Aup Phe 230 50 (2) INFOPMATION FOR SEQ ID NO: 411:
 - (i) DEQUENCE CHAPACTHRISTICS
- $\frac{1}{60} = \frac{1}{1} + \frac{1}{1} \sin \left(\frac{1}{2} \cos \left(\frac{1}{2}$

	Gly	Ser	Ser	Arq 20	Gly	Ser	Ser	Ala	Ser 25	Leu	Thr	Pro	Ser	Pro 30	Gly	Arg		
5	Gln	Pro	Cys 35	Ser	Arg	Arg	Arg	Gly 40	Tyr	Ser	Val	Gly	Arg 45	Arq	Ser	Ser		
10	Pro	Pro 50	Asp	Gly	Ser	Хаа												
	(2)	INF	ORMA!	ricii	FÖR	SEQ	ID 1	ÑC: 4	41 3:									
15			(i) .	(.	A) L E) T	ENGT YPĖ:	H: 3 ami	ERIS' 3 am no a lin	ino cid		s							
20			(× L)					PTIO		EQ I	D NO	: 41	3 :					
20	Met 1	Ser	Leu	Gln	Ser 5	Asn	Ala	Trp	Ser	Lys 10	Xaa	Leu	Phe	Ile	Val 15	Phe		
25	Leu	Phe	Leu	Arg 20	Val	Leu	Phe	Lys	Thr 25	Gly	Val	Ser	Ser	Glu 30	Glu	Ser		
	Хаа																	
30																		
	(2)	INF	ORMA!	rion	FCR	SEQ	ID I	NC: 4	414 :									
35				((A) L B) T D) T	ENGT YPE: OPOL	H: 2 ami CGY:	ERIS' 19 a no a lin PTIO	mino cid ear	aci		: 41	4:					
40	Met 1	Ala	Val	Val	Leu 5	Leu	Ala	Asn	Leu	Ala 10	Gln	Gly	Asp	Ser	Leu 15	Ala		
45	Ala	Arg	Ala	11e 20	Ala	Val	Gln	Lys	Gly 25	Ser	Ile	Gly	Asn	Leu 30	Leu	Gly		
49	Phe	Leu	Glu 35	Asp	Ser	Leu	Ala	Ala 40	Thr	Gln	Phe	Gln	Gln 45	Ser	Gln	Ala		
50	Ser	Leu 50	Leu	His	Met	Gln	Asn 55	Pro	Pro	Phe	Glu	Pro 60	Xaa	Ser	Val	Asp		
	Met 65	Met	Arg	Arg	Ala	Ala 70	Arg	Ala	Leu	Leu	Ala 75	Leu	Ala	Lys	Val	Asp 80		
55	Glu	Asn	His	Ser	Glu 85	Phe	Thr	Leu	Tyr	Glu 90	Ser	Arg	Leu	Leu	Asp 95	Ile		_
60	Ser	Val	Ser	Pro 100	Leu	Met	Asn	Ser	Xaa 105	Val	Ser	Gln	Val	Ile 110	Cys	Asp		

	Val	Leu	Phe 115	Leu	Kaa	Trp	Pro	Val 120	Met	Thr	Ala	Val	Gly 125	His	Lėu	Pro
5	Pro	Pro 130	Cys	Val	Cys	Ala	Cys 135	Val	Glu	Asn	Leu	Glu 140	Thr	Asp	Cys	Cys
	Pro 145	Leu	Phe	Met	Gln	Aon 150	His	L∉u	Arg	Ile	Gln 155	Phe	Thr	Leu	Cys	Čys 160
10	Pro	Ala	Ser	Pro	Leu 165	Gly	Lys	Ser	Leu	Ser 170	Cys	Phe	Ser	Leu	Leu 175	Leu
15	Pro	Pro	Pro	Leu 180	Pro	Pro	Ser	Pro	Ніз 185	Ala	Phe	Leu	Phe	Lau 190	Val	Leu
	Thir	Leu	Leu 195	Pro	Ser	Gly	Pro	17r 200	Pro	Thr	Leu	Phe	Glu 205	Lys	Thr	Lys
20	Leu	Cys 210	Leu	His	Arg	Arg	Leu 215	Phe	Leu	Phē	Xaa					
25	(2)		OPMAC	SEQUI	ENCE	CHAI	RACTI	ERIS.	FICS							
				١.	rt) 1	ENG!	:1: >	l am	ino -	acid	ς.					
30			(xi)	(B) T D) T	YPE: OPOL	ami: OGY:	no a lin PTICM	cid ear			: 419	ō:			
30	Mert 1		(xi) Pro	SEQT	B) T C) T JENC:	YPE: OPOL E DE:	ami: OGY: SCRII	lin PTIC	cid ear N: SI	EQ II	O41 C			Pro	S⇔r 15	Leu
30 35	1	Lėu		SEQI Asp	B) T D) T JENC: Glu S	YPE: OPOL E DE: Ser	ami: OGY: SCRII Phe	lin PTIO	cid ear N: SI Leu	EQ II Leu 10	Leu	Ser	Ile		15	
	l Thr	Lèu Pro	Pro	(° SEQUASPALA 20	B) T D) T JENC: Glu 5 Ala	YPE: OPOL E DE: Ser Ala	ami: OGY: SCRI: Phe Pro	lin PTICI Gly Ser	cid ear N: SI Leu Phe 25	EQ II Leu 10 Cys	D NO Leu Val	Ser His	Ile Leu	M라t 30	15 Gln	Ala
35	l Thr Ser	Lèu Pro	Pro Ser Ser 35	(° SEQUASPALA 20	B) T D) T JENC: Glu 5 Ala	YPE: OPOL E DE: Ser Ala	ami: OGY: SCRI: Phe Pro	lin Gly Ser	cid ear N: SI Leu Phe 25	EQ II Leu 10 Cys	D NO Leu Val	Ser His	Ile Leu His	Mett 30	15 Gln	Ala
35	Thr Ser Gly	Leu Pro Arg Arp 50	Pro Ser Ser 35	() SEQU Asp Ala 20 Ser	B) T D) T UPENC: Glu 5 Ala Lys	YPE: OPOLL Ser Ser Ala Arg	ami. OGY: Phe Pro	lin PTICA Ser Ser 40	cid ear N: Sl Leu Phe 25	EQ II Leu 10 Cys	D NO Leu Val	Ser His	Ile Leu His	Mett 30	15 Gln	Ala
35	Thr Ser Gly	Leu Pro Arg Anp 50	Pro Ser Ser 35 Xaa	() SEQUE ASP Ala 20 Ser First () () () () ()	B) TO DENCE STATE TO THE STATE	YPE: OPOLI Ser Ala Arg CHAM CHAM CHAM CPOLI CPOL	aminosy: SCRII Phe Pro Ala PACTI H: 5 aminosy:	lin Prior Cly Ser 40 Keric 0 am no action	cid ear N: SI Leu Phe 25 His	Leu 10 Cys Val	D NO Leu Val Pro	Ser His	Leu His 45	Mett 30	15 Gln	Ala

60 — Den Glim Len Glim Lyd for: Gin Ara The Lengther MacMod A $_{\mathrm{C}}$, $_{\mathrm{C}}$, $_{\mathrm{C}}$

		35		40		45	5		
5	Arg	Xaa 50							
	(2)	INFORMA	TION FOR SE	Q ID NO: 4:	17:				
10			(B) TYPE (D) TOPO	STH: 70 ami E: amino ac DLOGY: line	no acids id ar				
15		(xi)	SEQUENCE I	ESCRIPTIÓN	: SEQ ID 1	NO: 417:			
	Asp l		Cys Pro Se 5	r Ser Leu 1	Pap Lys Va 10	al Phe Pro	Leu Leu 15		
20	Leu	Leu Met	Arg Leu Ph	e Pro Leu l	Pro Val Pr 25	to Gly Asr	n Gln Arg 30	, Ala	
	Хаа	Leu Pro 35	His Pro Ph	e Xaa Ala 1 40	Pro Arg Le	eu Pro Cys 45		ı Cys	
25	Leu	Cys Thr 50	Gln Gln Ph	e Xaa Val (55	Cys Ser Hi	s Tyr Leu 60	ı Pro Ala	Gly	
30	Tyr 65	Arg Val	Asn Ser Xa	a 0					
	(2)	INFORMA	TION FOR SE	Q ID NO: 41	18:				
35		(i)	(B) TYPE	ARACTERIST ETH: 40 ami E: amino ac DLOGY: line	no acids id				
40		(xi)	SEQUENCE D	ESCRIPTION	: SEQ ID 1	NO: 418:			
	Met 1	His Glu	Lys Ala Tr 5	p Asn Leu :	Ile Leu Le 10	eu Trp Trp	Leu Ser 15		
45	Asp	Leu Leu	Gly Val Al 20	a Lys Thr A	Ala Met Tr 25	rp Ala Glm	Trp Cya	Gly	
	Leu	Asn Asp 35	His Lys Gl	y Lys Xaa 40					
50									
	(2)	INFORMA	TION FOR SE	Q ID NO: 41	19:				
55			(B) TYPE	STH: 22 ami E: amino ac DLOGY: line	no acids id ar	JO: 4'9:			·
60	Met		Val Leu Le				. Ser Ser	· Xaa	
	_						- DOL DOL	AMAG	

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1
                                                        15
      Gly Arg Ala Val Gln Kaa
         20
 5
      (2) INFORMATION FOR SEQ ID MO: 400.
10
            (i) SEQUENCE CHARACTERISTICS:
                   (A) LENGTH: 3% amin. acids
                   (B) TYPE: amino soil
                   (D) TOPOLOGY, linear
            (x1) SEQUENCE DESCRIPTION: SEQ ID NO: 420:
15
     Met Phe Ser Leu Leu Trp Leu Val Cys Val Pro Der Abn Ger Ber Val
     Ala Ash Val Thr Ala Ser Arg Gly Gly Val Fhe Lys Arg Ser Lou Gly
20
       20 25 30
     His Glu Gly Phe Ser Xaa
             35
25
     (2) INFORMATION FOR SEQ ID NO: 40_:
            (i) SEQUENCE CHARACTERISTICS:
30
                  (A) LEDIGTH: 35 amino acido
                   (B) TYPE: amino acid
                  (D) TOPOLOGY: linear
            (xi) SEQUENCE DESCRIPTION: TE, ID MO: 101:
35
     Lys Trp Leu Leu Phe Ile Phe Leu Leu Dys Leu Sin Leu Val Agn Ala
     Lou Lou Ser Leu Phe Gln Glu Arg Pas Val His Cyp Pro Ala Arg Phe
40
     Val Ser Xaa
.15
     (0) INFORMATION FOR SEQ ID NO: 422:
            (i) SEQUENCE CHARACTERISTICS:
                  (A) LENGTH: 33 amins acids
50
                  (B) TYPE: amino acid
                  (D) TOPOLOGY: linear
            (xi) DEQUENCE REDCRIPTION: DEQ ID No: 400:
```

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5	(2) INFORMATION FOR SEQ ID NO: 423:
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 127 amino acids (B) TYPE: amino acid (D) TOPOLOGY: linear (X1) SEQUENCE DESCRIPTION: SEQ ID NO: 423
15	Met Glu Phe Leu Phe Asn Lys Thr Gly Trp Ala Phe Ala Ala Leu Cys 1 5 10 15
	Phe Val Leu Ala Met Thr Ser Gly Gln Met Trp Asn His Ile Arg Gly 20 25 30
20	Pro Pro Tyr Ala His Lys Asn Pro His Thr Gly His Val Asn Tyr Ile 35 40 45
	His Gly Ser Ser Gln Ala Gln Phe Val Ala Glu Thr His Ile Val Leu 50 55 60
25	Leu Phe Asn Gly Gly Val Thr Leu Gly Met Val Leu Cys Glu Ala 65 70 75 80
30	Ala Thr Ser Asp Met Asp Ile Gly Lys Arg Lys Ile Met Cys Val Ala 85 90 95
	Gly Ile Gly Leu Val Val Leu Phe Phe Ser Trp Met Leu Ser Ile Phe 100 105 110
35	Ard Ser Dys Tyr His Gly Tyr Pro Tyr Ser Phe Leu Met Ser Xaa 115 120 125
40	(2) INFORMATION FOR SEQ ID NO: 424: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 69 amino acids
45	(B) TYPE: amino acid (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 424:
	Met Thr Trp His Ser Arg Glu Ser Phe Xaa Leu Leu Arg Val Val Ala 1 5 10 15
50	Pro Ser Gln Ala Pro Gly Met Gln Val Ser Pro Ser Gln Arg Ala Trp 20 25 30
55	Arg Arg Pro Leu His Arg Cys His Val Ala Ala Pro Arg Pro His His 35 40 45
	Phe Ala Phe Phe Arg Asn Pro Phe Ser Trp Ser Phe Ile Lys Leu Leu 50 55 60
60	Tyr Arg Tyr Leu Xaa 65

5	(2)	INF	OFM	AT I OI	1 FOE	R SE(Q ID	NO:	425:								
•			(i)		JENCI (A) (B) '	LENG	TH:	92 ar	onın		ds						
10			(xi)) SE(ONEMO					EQ I	(D NC): 42	25 :				
	Met 1	Gly	Leu	ı Lys	Let	ı Asr	a Gly	'Arg	Tyr	Ile 10		Lest	ı Ile	i Ley	Ala 19		Ļ
15	Gln	Ile	- Ala	Tyr 20	Leu	ı Val	Gln	Ala	Val 25		Ala	Ala	Gly	z Lys 30		s Asr)
20	Ala	Val	Fhe 35	. Lys	Gly	Phe	Ser	Anp 40		Leu	Leu	Lys	Leu 41		. Yeb) Thi	
	Trp	Pro 50	Thr	Thr	Arg	Ser	Leu 55	Gly	Arq	Gln	Asp	Glu 60		: Gln	Asp	Arq	i
25	Val 65	His	Ile	Leu	Gly	Gly 70	Phe	Pro	Gln	Leu	His 75	Gly	His	Ser	Pro	Туr 80	
30	Gly	Leu	Pro	Gly	Arg 85	Gly	Glu	Arg	Tyr	Val 90	Glγ	Хаа					
	(2)	INFO	DEMA'	TION	FOR	SEQ	ID 1	√O; 4	1 26:								
35			(ĭ)	SEQU) }	ENCE A) L B) T D) T	CHA FIIGT YPE: OPOL	RACTI H: 3 ami: OGY:	ERIS 80 a no a lin	TICS mino cid ear	aci		: 42	6 :				
40	Met . 1													Leu	Trp 15	Ser	
4 5	Il.	Lou	Leu	Суз 20	Leu	Deu	Ala	Leu	Arg 25	Ala	Glu	Ala	Gly	Pro 30	Pro	Gln	
	Glu :	Glu	562 35	Leu	D)T	Leu	Trp	11e 40	Arp	Ala	His	©ln	Al. 45	Arq	Val	Leu	
50	Ile (31y 50	Phe	Glu	Glu	Asp	Ile 55	Leu	Ilė	Val	Šer	Glu 60	Gly	Lys	Met	Ala	
	Pro I	er e	Thr	His	quA	ਈਵਿ ਰਹੇ	Yid	lyo	Ala	-31n	Gin	Ar q	M++*	Pro	Ain	114	
νŌ	4° - 1		* . ` (. 2 1 1	Pytr	٠.٠	1 1.5	1.	. • : 1 `		Ar r		1-4	A. ; · 11"	17.	erty.	

	Ιlє	e Met	115	Asp) Pro	Thr	Val	. Asr 120		Pro) Leu	Leu	G1y 125		Val	. Pro
5	His	130	Ala	. Ser	Val	. Val	Gln 135		. Gly	Phe	Pro	Cys 140		Gly	· Lys	Gln
	Asp 145	Gly S	Val	Ala	. Ala	Phe		Val	Asp	Val	Ile 155		Met	Asn	Ser	Glu 160
10	Gly	/ Asn	. Thr	Ile	Leu 165		Thr	Pro	Gln	Asn 170		Ile	Phe	Phe	Lys 175	
15	Cys	: Gln	Gln	Ala 180	Glu	Cys	Pro	Gly	Gly 185	Cys	Arg	Asn	Gly	Gly 190	Phe	Сув
	Asn	Glu	Arg 195	Arg	Ile	Cys	Glu	Cys 200	Pro	Asp	Gly	Fhe	His 205	Gly	Fro	His
20	Cys	Glu 210	Lys	Ala	Leu	Cys	Thr 215	Pro	Arg	Cys	Met	Asn 220	Gly	Gly	Leu	Cys
	Va1 225	Thr	Pro	Gly	Phe	Cys 230	Ile	Cys	Pro	Pro	Gly 235	Phe	Tyr	Gly	Val	Asn 240
25	Cys	Asp	Lys	Ala	Asn 245	Cys	Ser	Thr	Thr	Cys 250	Phe	Asn	Gly	Gly	Thr 255	Cys
30	Phe	Tyr	Pro	Gly 260	Lys	Cys	Ile	Xaa	Pro 265	Pro	Gly	Leu	Glu	Gly 270	Glu	Gln
	Cys	Glu	Ile 275	Ser	Lys	rīys	Pro	Gln 280	Pro	Cys	Arg	Asn	Gly 285	Gly	Lys	Cys
35	I .e	Gly 290	Lys	Ser	Lys	ſ'ns	Lys 295	Xaa	Ser	Lys	Gly	Tyr 300	Gln	Gly	Asp	Leu:
	Cys 305	Ser	Lys	Pro	Val	Cys 310	Glu	Pro	Gly	Cys	Gly 315	Ala	His	Gly	Thr	Cys 320
40	His	Glu	Pro	Asn	Lys 325	Cys	Gln	Cys	Gln	Glu 330	Gly	Trp	His	Glγ	Arg 335	His
45	Cys	Asn	Lys	Arg 340	Tyr	Glu	Ala	Ser	Leu 345	Ile	His	Ala	Leu	Arg 350	Pro	Ala
	Gly	Ala	Gln 355	Leu	Arg	Gln	His	Thr 360	Pro	Ser	Leu	Lys	Lys 365	Ala	Glu	Glu
50	Arg	Arg 370	Asp	Pro	Pro	Glu	Ser 375	Asn	Tyr	Ile	Trp	Xaa 380				
55	(2)	INFC	PMAT	'ION	FOR	SEQ	ID N	10:4	27:							
		((i) S	()	/) LH		I: 24	am:	CICS: ino a		5					
(0						POLC										

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 427:

*** * 3 % A

	Met 1	Thr	Ser	Asn	Leu 5	Leu	Leu	Leu	Thr	leu 10	Leu	L-514	Lys	Asp	Thr 15	Leu
5	Хаа	Leu	Ala	Lys 20	Xaa	Asn	Хаа	Xaa								
10	(2)	IIF	orma'	noit	FOR	SEQ	ID :	NO; ·	428:							
15				(A) I B) T D) T	LENG'I TYPE : TOPOL	H: 4 ami OTY:	ERIS 7 am no a lin PTIC	nino cid mear	acid		: 42.	3 :			
20	Met 1	Arj	His	His	Thr 5		Leu	Asn	Phe	11e 10	Phe	Leu	Val	Glu	ман 15	Val
20	Phe	Lou	Hıs	Val 20		· Gln	Ala	Gly	Leu 25		Leu	₽ ヹ つ	Thr	Ser 30	Gly	2s£
25	Хаа	Ala	Cys 35		Gly	/ Leu	. Pro	Lys 40		Leu	Gly	Leu	Gln 45	Ala	Хаа	
30	(2)	IME		SPÇU	Æ1101 (A)	E CHI	ARAC'	NO: TERIS 5 am ino a	STICS ino a	S:	5					
35			(xi		, D)	TOPO	LOCY	: li	near	SEQ I	D NC	D: 42	:9:			
	Met 1		s Ser	. Aug		1										
40	(2)	111	POPM	AT GE	I FO	R SE(di č	110:	430:							
45					(A) (B) (E)	LENG TYPE TOPO	TH : ar :LOGY	TERI 144 Sinc Se li IPTI	amin acid near	ខ គ.។		O: 4 1	30 :			
50	Let	ı Le :	u Sé	r Il		u Der 5	u Cy	s Le	u Lei	u Ala	a Sei	r Gly	z Let	ı Val	l Val	. Phe
	Ethi	e> [≀∃	u Ph	e br	a Hi	1 7.	rVi	1 I-	ni Ma	j	5 A.	r Ant	s (s):	e tie	s (two	: Va)
60	Me	: Al	a Tr	i De		·. [1	or Ai		ē ·	: 4	ili . ia	- TY	- T.	i Na	1	s Vjal

	Thr 65	Ser	Leu	Ser	Ser	Gln 70	Ile	Gln	Туг	Met	Asn 75	Thr	Val	Val	Asn	Phe 80
5	Thr	Gly	Lys	Ala	Glu 85	Met	Gly	Gly	Pro	Phe 90	Ser	Tyr	Val	Tyr	Phe 95	Phe
10	Cys	Thr	Val	Pro 100	Glu	Ile	Leu	Val	His 105	Asn	Ile	Val	Ile	Phe 110	Met	Arg
- 4	Thr	Ser	Val 115	Lys	He	Ser	Tyr	Ile 120	Gly	Leu	Met	Thr	Gln 125	Ser	Ser	Leu
15	Glu	Thr 130	His	His	Tyr	Val	Asp 135	Cys	Gly	Gly	Asn	Ser 140	Thr	Ala	Ile	Xaa
20	(2)	INF	ORMA'	rion	FOR	SEQ	ID :	NO:	431:							
25				(A) L B) T D) T	ENGT YPE : YPOL	H: 3 ami OGY:	ERIS 7 am no a lir PTIC	uno cid mear	acid		: 43	1:			
30	Met 1		Phe	Phe	Leu 5		Val	Tyr	Ser	Val 10		Суѕ	Ğly	Leu	Leu 15	
35				2 0			His	Ser	Val 25		Leu	Val	Thr	Ser 30	Leu	Val
	Ala	. ser	35	Le∙u	хаа											
40	(2)	INF	ORMA	TION	FOR	. SEÇ) ID	NC):	432:							
45					(A) 1 (B) ' (D) '	LENG IYPE IOPO)	TH: : : am. LOGY	rERIS 37 am ino a : lin : lin	mino acid near	acio		D: 40	32:			
50	Met 1		a Ser	Ile	Asr		u Val	L Tyr	: Ile	His		. Ph∈	e Lei	ı Gly	/ Val 15	Cys
	Val	l Glr	n Ala	Thr 20		a Alā	a Cys	s Pro	Trp 25		s Ser	Glr	ı Cys	arg 30		a Gly
55	Sei	val	l Pro	Ser	т Каа	1										

60 (2) INFORMATION FOR SEQ ID NO: 433:

		4	(1) 2						MCS:		ds					
5			(xi)	(I) T	OPOL	CY:	no ad line PTION		Q II	OM C	: 431	3:			
	Me-t	Met	Ala	Ala	Met 5	Val	Leu	Thr	Ser	Leu 10	Ser	Суз	Ser	Pro	Val 15	Val
10	Gln	Ser	Pro	Pro 20	Gly	Thr	Glu	Ala	Asn 25	Phe	Ser	Ala	Ser	30 30	Ala	Ala
15	Cys	Asp	Pro 35	Trp	Lys	Glu	Ser	Gly 40	Asp	Ile	Ser	Asp	Ser 45	Gly	Хаа	Ser
	Thr	Thr 50	Ser	Gly	His	Tip	Ser 55	Gly	Ser	Ser	Gly	Val 60	Ser	Thr	Pro	Ser
20	Pro 65	Pro	His	Pro	Gln	Ala 70	Ser	Pro	Lys	Tyr	Leu 75	Gly	Asp	Ala	₽he	Gly 30
25	Ser	Pro	Gln	Thr	Asp 85	His	Gly	Phe	Glu	Thr 90	Asp	Pro	Asp	Fro	Phe 95	Leu
	Leu	Asp	Glu	Pro 100	Ala	Pro	Arg	Lys	Arg 105	Lys	Asn	Ser	Val	Lys 110	Val	Met
30	Tyr	Lys	Cys 115	Leu	Trp	Pro	Asn	Cys 120	Gly	Lys	Val	Leu	Arq 125	Ser	Ile	Val
		130					135		Leu			140				
35	145					150			Asp		155					160
40					155				Ala	170					175	
	3ln	Ser	· Leu	Gly 180		. Pro	Pro	Pro	Ser 144	Gln	Leu	. Pro	Pro	Pro 190		. Xaa
45																
50	(2)	1111-	OFM	KTION	I FOF	: SEQ	ID	NC:	434:							
50			(1)		(A)	LENG	TH:		STICS mino acid		d.,					

 60° . Apr. Typ. Leaf Typ. Miss. Hiss High His Leaf Fr. Val. Fr. Apr. Thr. Kar.

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5	(2) IN	FORMAT	11OI,	FOR	SEQ	1 di	10:4	35:							
10		(i) S (xī)	(2 (E	A) LI B) T D) T	ENGTI PE: OPOLO	H: 1 amin OGY:	01 an no ao line	mino cid ear	acio		: 435	5:			
15	Met Gl 1	y Phe	Phe	Phe 5	Val	Leu	Ehe	Phe	Leu 10	Tyr	Leu	Ala	Leu	Ser 15	Arg
15	Asp Tr	p Ser	110	Asn	Phe	Leu	Lys	Asp 25	His	Arg	Ile	Asn	Phe 30	Phe	Val
20	Ala Th	r Ser 35	Tyr	Phe	Ser	Val	Tyr 40	Val	Arg	Gly	Xaa	Pro 45	Хаа	Val	Pro
	Ala As S	p Thr	Pro	Leu	Gly	Pro 55	Leu	Leu	Ser	Leu	Trp 60	Leu	Hīs	His	Asn
25	Ala Ph 65	ië Phe	Set	lle	Leu 70	Pro	Lys	Phe	Pro	Glu 75	Asn	Хаа	Xaa	Phe	Leu 80
30	Ile Lo	u Lys	Lyr.	Leu 85	Val	Val	Glu	Met	Gly 90	Trp	Asp	Leu	Phe	Ile 95	Ser
50	Pro Gl	lu Asn	Lys 100	Xāa											
35	(2) I:	iforma'	ric:i	FOR	SE:Q	ID:	NO:	436:							
40			(A) L B) T D) T	ENGT YPE : 'OPOL	'H: 3 ami OGY:	7 am no a lir	uino Icid Iear	acio		o: 4 3	6:			
45	Met Al	la Arg	Туг	Phe 5	Ile	Phe	Phe	Ile	Leu 10	Val	Phe	Met	Lys	Val 15	Ser
	Leu Ar	sn Thr	Thr 20	Trp	Pro	Ala	Pro	Arg 25	Pro	Ala	Thr	Leu	Arg 30	Thr	Ala
50	Asn Ly	ys Ser 35	Lys	Xaa											
55	(2) II	nforma	TION	FOR	SEQ	ID	: C41	437:							
		(i)	SEÇU					STICS		٦e					

(B) TYPE: amino acid

(D) TOPOLOGY: linear

20 25

	(xi) JEQUENCE DESCRIPTION: SEQ ID NO: 437:
5	Phe Ser Thr Ile Arg Ser Gly Leu Thr Asp Arg Ser Val Ash Phe Leu 1 5 10 15
-'	Phe Leu Phe Leu Asp Val Pro Asp Cys Arg Leu Val Abn Ile Shu Leu 20 25 30
10	Met Ala Agn Sør Thr Val Thr His Ala Xaa 35 40
15	(2) INFORMATION FOR SEQ ID NO: 438: (1) SEQUENCE CHAPACTERISTICS: (A) LENGTH: 1 amino acids (B) TYPE: amino acid
20	(D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 43H:
	Leu 1
25	
	(2) INFORMATION FOR SEQ ID NO: 439:
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 25 amino acids (B) TYPE: amino acid (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 439:
35	Met Pro Trp Arg Arg Ala Gly Leu Met Met Leu Pro Ile Ile Thr Gly 1 5 10 15
40	Cys Cys Pro Cyd Ser Ala Ser Ile Xaa 20 - 25
	(2) INFORMATION FOR SEQ ID NO: 440:
45	(1: SEQUENCE CHAPACTERISTICS: (A) LEMGTH: 54 amino acids (B) TYPE: amino acid
50	(D) TOPOLOGY: linear (X1) SEQUENCE DESCRIPTION: SEQ ID NO: 440:
30	Mot. Tyr Lou Cys Lys Thr Val Lys Val Lou He Sys Tyr Acp Trp Ho 1 5 15
	el luci de la lución de Alexander de la secretaria de Alexander de Ale
60	

5	(2) INFORMATION FOR SEQ ID NO: 441:
. ()	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 42 amino acids (B) TYPE: amino acid (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 441:
15	Met Thr Ala Leu Val Trp Arg Lys Gly Pro Asp Gly Gly Ser Arg Lys 1 10 15
IJ	Pro Ile Leu Leu Phe Phe Phe Leu Pro Leu Ile Leu Cys Phe His
20	Ser Phe Ile His Ser Ser Asn Ile Cys Xaa 35 40
25	(2) INFORMATION FOR SEQ ID NO: 442:
30	(i) SEQUENCE CHARACTERISTICS: (A) LFNGTH: 66 amino acids (B) TYPE: amino acid (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 442:
	Met Phe Leu Thr Thr Trp Phe Leu Leu Ser Val Ala Trp Xaa Ala 1 5 10 15
35	Leu Thr Arg Ser Gly Arg Ser Cys Leu Pro Leu Val Gly Arg Pro Arg 20 25 30
40	Glu Gln Ser Pro Arg Thr His Cys Ala Ala Ser Ser Thr Lys Glu Arg 35 40 45
10	Asn Ser Asp Pro Gln Pro Ser Pro Pro Glu Val Val Gly Pro Leu Trp 50 55 60
45	Ser Xaa 65
50	(2) INFORMATION FOR SEQ ID NO: 443:
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 156 amino acids (B) TYPE: amino acid (D) TOPOLOGY: linear
55	(D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 443:
	Met Lys Ala Ile Gly Ile Glu Pro Ser Leu Ala Thr Tyr His His Ile 1 5 10
60	Ile Arg Leu Phe Asp Gln Pro Gly Asp Pro Leu Lys Arg Ser Ser Phe

				20					25					30		
-	He	He	Tyr 35	Asp	Ile	Met	Asn	Glu 40	Len	Mę t.	üly	Lys	Arg 45	Phe	Ser	Prγ
5	Lys	qaA 98	Pro	App	Asp	Азр	Lys 55	Phe	Phe	Gin	Ser	Ala 60	Met	Fer	Ile	Cys
10	Ser 65	Ser	Leu	Arg	Asp	Leu 70	Glu	Leu	Ala	Tyr	Gln 75	Val	His	Gly	Leu	Leu 80
	Lys	Thr	Gly	Asp	Asn 85	Trp	Lys	Phe	Ile	G17 90	Pro	Asp	Gln	Hīs	Aig 35	Asn
15	Phe	Tyr	Tyr	Ser 100	Lys	Phe	Phe	Asp	Leu 105	He	Tro	Leu	Met	61u 116	Gln	Ile
20	Asp	Val	Thr 115	Lesu	Lys	Trp	Tyr	Glu 120		Leu	Ile	Pro	Ser 125	Ala	Tyr	Phe
_0	Pro	His 130		Gln	Thr	Met	11e 135		Leu	Leu	Gln	Ala 140	Leu	Asp	Val	Ala
25	Asn 145		Leu	Glu	Val	11e 150		Lys	. Ile	Trp	Glu 155					
30	(2)	-114 I			ÆNCE (А) : (В) '	E CHA	RACT TH: ! : am	rERIS 57 au ino -	STICS mino acid		is					
35) SEÇ	QUENC	CE DI	EJCR'	PTI(ON: S					_		
	Me t		s Phe	e Len.	i Phe		; Phe	2 Ile	e Val	. Phe 10		e Tyr	: Lien	ı Tirş.) G ₋ y 15	
4()	Ehe	Thi	r Ala	a Glr 20		g Glr	ı Lys	s Ly:	s Glu 25		ı Sez	Thi	Glu	ı Glu 37	ı Val	. Ly
45	II.	. :1:	.: V i 31	l Len	a Hi:	a Ark	1 1,1,1	5 Gl:	u Asr				Thi) Lys	a Ly
	uly	/ A.S) 5:		u Lea	ı Dy:	s <i>- ථ</i> ::	5 Pro 5		и Хъ	1						
50	10) II:	FORM	ATIC	I FO	R JE	Q IĐ	no:	445	:						
					, Train			1,		· .						

- Mrt. Ark Thr Den Phe Adm Len Den Err Err Ala Den Ala Syn Jer Err

	Val	His	Thr	Thr 20	Leu	Ser	Lys	Ser	Asp 25	Ala	Lys	Lys	Ala	Ala 30	Ser	Lys
5	Thr	Leu	Leu 35	Glu	Lys	Ser	Gln	Phe 40	Ser	Asp	Lys	Pro	Val 45	Gln	Asp	Arg
10	Gly	Leu 50	Val	Val	Thr	Asp	Leu 55	Lys	Ala	Glu	Ser	Val 60	Val	Leu	Glu	His
•	Arg 65	Ser	Tyr	Cys	Ser	Ala 70	Lys	Ala	Arg	Asp	Arg 75	His	Phe	Ala	Gly	Asp 80
15	Val	Leu	Gly	Tyr	Val 85	Thr	Pro	Trp	Asn	Ser 90	His	Gly	Tyr	Asp	Val 95	Thr
	Lys	Val	Phe	Gly 100	Ser	Lys	Phe	Thr	Gln 105	Ile	Ser	Pro	Val	Trp 110	Leu	Gln
20	Leu	Lys	Arg 115	Arg	Gly	Arg	Glu	Met 120	Phe	Glu	Val	Thr	Gly 125	Leu	His	Asp
25	Val	Asp 130	Gln	Gly	Trp	Met	Arg 135	Ala	Val	Arg	Lys	His 140	Ala	Lys	Gly	Leu
	His 145	Ile	Val	Pro	Arg	Leu 150	Leu	Phe	Glu	Asp	Trp 155	Thr	Tyr	Азр	Asp	Phe 160
30	Arg	Asn	Val	Leu	Anp 165	Ser	Glu	Asp	Glu	Ile 170	Glu	Glu	Leu	Ser	Lys 175	Thr
	Val	Val	Gln	Val 180	Ala	Lys	Asn	Gln	His 185	Phe	Asp	Glγ	Phe	Val 190	Val	Glu
35	Val	Trp	Asn 195	Gln	Leu	Leu	Ser	Gln 200	Lys	Arg	Val	Gly	Leu 205	Ile	His	Met
40	Leu	Thr 210		Leu	Ala	Glu	Ala 215	Leu	His	Gln	Ala	Arg 220	Leu	Leu	Ala	Leu
.0	Leu 225		Ile	Pro	Pro	Ala 230	Ile	Thr	Pro	Gly	Thr 235	Asp	Gln	Leu	Gly	Met 240
45	Phe	Thr	His	Lys	Glu 245	Phe	Glu	Gln	Leu	Ala 250	Pro	Val	Leu	Asp	Gly 255	
	Ser	Leu	Met	Thr 260	Tyr	Asp	Tyr	Ser	Thr 265		His	Gln	. Pro	Gly 270		Asn
50	Ala	Pro	Leu 275		Trp	Val	Arg	Ala 280		Val	Gln	Val	Leu 285		Pro	Lys
55	Ser	290		Arg	, Ser	Lys	11e 295		. Leu	Gly	Leu	. Asn 300		Tyr	Gly	Met
	Asp 305		Ala	Thr	: Ser	1 Lys		Ala	. Arg	r Glu	Pro 315		. Val	. Gly	Ala	. Arg 320
60	Тут	Ile	e Glr	Thr	r Leu 325		: Asp	His	Arg	Pro		Met	: Val	. Trp	Asp 335	

	Gln	Xaa	Ser	Glu 340	His	Phe	Phe	Glu	Tyr 345	Lys	Lys	Ser	Yi 4	Ser 350	цlу	Arq
5	His	Val	Val 355	₽he	Tir	Pro	Thr	Leu 350	Lys	Ser.	Leu	Gln	Val 365	Arq	Leu	Glu
10	Leu	Ala 370	Arg	Glu	Leu	Gly	Val 275	Gly	Val	Ser	Ile	1rp 380	Ğlu	Leu	Ala	Arj
10	Ala 385	qıT	Thr	Thr	Ser	Thr 390	Thr	Сую	Ser	Arq	Trp 395	Ala	Litu	Arŋ	Pro	Pro 400
15	Arg	'Irp	Thr	Cyn	Ser 405	Phe	Leu	Ser	His	Gly 410	Vil	Ser	Glu	Gln	Val 415	Каа
20																
25	(2)	INF	(ī)	(ENCE (A) I (B) I	CHA LENGT TYPE:	RACT 'H: 6 am: .CGY	TERIS 54 am ino a : lir	TICS mino ncid	acid		o: 44	16:			
30	Met 1					Leu			Thr		Ala			Ile	His 15	
35	Thr	His	s Cyc	Len 20		n Leu	Pr(√ Val	. Trp 25		: Leu	. Ser	: Leu	. Val		Glu
2727	Let	ı Lev	35 Gly		, Ala	n Pro	Pro	His		ı Lye	: Asf	Al.	a Leu 49		r Pro	Ser.
40	Lys	s Lys 50		s Lys	. Lys	s Lys	5 Let 55		a Gly	/ Gly	r Pro	Va:) Ile	Pro	Pro
45																
	(2) INI	FORM	ATIOI	V FOI	R SEG	OI C	MO:	447	:						
50			(i)		(A) (B) (D)	LFING TYPE TOPO	TH: : an LOG:	206 lino E li	STIC amin acid near	io ac I						

Tip leasts the that is a two is a few Assistance of Past San with Assistance of the
	Gln	Glu	Gly 35	Ser	Glu	Pro	Val	Leu 40	Leu	Glu	Gly	Glu	Суs 45	Leu	Val	Val
5	Cys	Glu 50	Pro	Gly	Arg	Ala	Ala 55	Ala	Gly	Gly	Pro	Gly 60	Gly	Ala	Ala	Leu
	Gly 65	Glu	Ala	Pro	Pro	Gly 70	Arg	Val	Ala	Phe	Ala 75	Ala	Val	Arg	Ser	Хаа 80
10	His	His	Glu	Pro	Ala 85	Gly	Glu	Thr	Gly	Asn 90	Gly	Thr	Xaa	Gly	Ala 95	Ile
15	Тут	Phe	Asp	Gln 100	Val	Leu	Val	Asn	Glu 105	Gly	Glγ	Gly	Phe	Asp 110	Arg	Ala
1.5	Ser	Gly	Ser 115	Phe	Val	Ala	Pro	Val 120	Ar _' j	Gly	Val	Tyr	Ser 125	Phe	Arg	Phe
20	His	Val 130		Lys	Val	Tyr	Asn 135	Arg	Gln	Thr	Val	Gln 140	Val	Ser	Leu	Met
	Leu 145		Thr	Trp	Pro	Val 150		Ser	Ala	Phe	Ala 155	Asn	Asp	Pro	Asp	Val 160
25	Thr	Arg	Glu	Ala	Ala 165		Ser	Ser	Val	Leu 170	Leu	Pro	Leu	Asp	Pro 175	Gly
30	Asp	Arg	Val	Ser 180		Arg	Leu	Arg	Arg 185		Asn	Leu	Leu	Gly 190	Gly	Trp
	Lys	Tyr	Ser 195		Phe	Ser	Gly	Phe 200		Ile	Phe	Pro	Leu 205	Xaa		
35	(2)	INF	ORMA	ACITA	I FOR	: SEÇ) ID	NO:	448:							
40	(2) INFORMATION FOR SEQ ID NO: 448: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 62 amino acids (B) TYPE: amino acid (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 448:															
45		: Sei	r Sei	. Let	ı Lev		: Ala	Gly	/ Leu	Glr 10		. Ser	Leu	Cys	Gly 15	Lys
	Xaa	a Lei	ı Tri	20 20		r Thi	Trį	ıAı c	Let 25		. Суз	s Cys	: Leu	Leu 30) Phe
50	Phe	e His	s Gli 3		y Cys	e Că	s Ası	His		s Sei	: Lys	s Glr	Glr 45		Ile	Pro
55	Ası	n Lei 5:		s Se:	г Ту:	r Cy:	s Gly 59	, Lev	ı Sei	r Thi	f Ile	e Glu 60		е Хаа	ı	
	(2) IN	FORM	ATIO	N FO	R SE	QI Ç	NO:	449	:						

60 (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 315 amino aci	(A)	LENGTH:	315	amino	acia
---------------------------	-----	---------	-----	-------	------

(B) TYPE: amino acid

(b) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 443: 5 Met Ser Thr Lys Lys Leu Cys Ile Val Gly Gly fie Leu Leu Val Phe 1.0 Gln Ile Ile Ala Phe Lou Val Gly Gly Leu Ile Ala Pro Gly Pro Thr 25 10 Thr Ala Val Ser Tyr Met Ser Val Lys Cys Val Asp Ala Arg Lys Asn His His Lys Thr Lys Trp Phe Val Pro Trp Gly Pro Acn His Cys Asp 15 Lys Ile Arg App Ile Glu Glu Ala Ile Pro Arg Glu Ile Glu Ala Asn 20 Asp Ile Val Phe Ser Val His Ile Pro Leu Pro His Met Glu Met Ser 90 Pro Trp Phe Gin Phe Met Kaa Phe Ile Leu Gin Leu Asp Ile Ala Phe 25 105 100 Lys Leu Asn Asn Gln Ile Arg Glu Asn Ala Glu Val Ser Met Asp Val 115 120 125 Ser Leu Ala Tyr Arg Asp Asp Ala Phe Ala Glu Trp Thr Glu Met Ala 30 His Glu Arg Val Pro Arg Lys Leu Lys Cys Thr Phe Thr Ser Pro Lys 155 150 35 Thr Pro Giu His Gly Gly Pro Val Thr Met Asn Vai Met Ser Phe Leu 170 Ser Trp Lys Leu Gly Leu Trp Pro Met Lys Phe Tyr Leu Leu Asn Ile 40 135 Arg Leu Pro Val Ach Glu Lyo Lyo Lyo Ile Ach Val Gly 114 Gly Glu 200 The Lys App The Ary Lea Val Gly The His Gln Agn Gly Hiy The Thr 45 2.15 Lys Val Trp Phe Ala Met Lys Thr Phe Leu Thr Pro Ser Ile Phe Ile 225 230 50 lie Met Val Trp Tyr Trp Arg Arg Ile Thr Met Met Ger Ard Fro Pro 250

60 Met feu Leu Ebe Sly Aug The Arm Sln Ala Ser Ser Met Kaa Syn Ebe-

	290	225	300	
5	Xaa Pro Ser Gly Se 305	er Ser Ser Val A 310	da Ser Thr Xba 315	
	(2) INFORMATION F	OR SEO ID NO: 45	50 :	
10	(A) (B) (D)	CE CHAPACTERIST: LENGTH: 24 ami: TYPE: amino ac TOPOLOGY: line NCE DESCRIPTION	no acids id ar	0 :
15	Met Leu Ala Leu L	eu Gly Leu Leu A -5	Ala Gly Thr Glu 10	His Pro Pro Gly
20	Pro Gln Gly Pro G 20	ly Pro Ser Xaa		
25		ICE CHARACTERIST	ICS:	
30	(B (D) LENGTH: 10 ami) TYPE: amino ac) TOPOLOGY: line ENCE DESCRIPTION	id ear	51:
	Met Pro Ser Gly A	Ala Cys Cys Ser 5	Pro Xaa 10	
35				
	(2) INFORMATION 1	FOR SEQ ID NO: 4	52:	
40	A) E) U)	NCE CHARACTERIST .) LENGTH: 26 am .) TYPE: amino ac .) TOPOLOGY: line ENCE DESCRIPTION	ino acids cid ear	52:
45	Met Leu Pro Ala 1	Leu Ser Thr Val 5	Leu Leu Pro Th	r Pro Ser Leu Cys 15
50	Ser Gly Asn Pro 20	Arg Glu Gly Trp	Ala Xaa 25	
	(2) INFORMATION	FOR SEQ ID NO: 4	45 3 :	
55		ENCE CHARACTERIS A) LENGTH: 172 a B) TYPE: amino a	mino acids .cid	
60		D) TOPOLOGY: lin MENCE DESCRIPTIO		153 :

	Met 1	Тут	Ser	Leu	His c	Ser	Tip	Val	Gly	Leu 10	Ile	Ala	Val	Ile	03 s 15	Тут
5	Leu	Leu	Gln	Leu 20	Deu	Sei	Gly	Phe	Ser 25	Val	Phe	I,≓u	Leu	Pro 30	Trp	Ala
	Pro	Leu	Ser 35	Leu	Ārģ	Ala	Phe	Leu 40	Met	Pro	Ile	His	Val 45	Tyr	Ber	Glγ
10	Ile	Val 50	Ile	Phe	Gly	Thr	Val 55	Ile	Ala	Thr	Ala	Leu 60	Met	Gly	Leu	Thr
15	Glu 65	Lys	Leu	Ile	Phe	Ser 70	Leu	Arg	Asp	Pro	Ala 75	Tyr	Ser	Thr	Pnb	Pro 80
15	Pro	Glu	Gly	Val	Phe 85	Va!	Asn	Thr	Leu	Gly 90	Leu	Levu	Ile	Leu	Va1 95	Phe
20	GIY	Ala	Leu	11e 100	₽ħe	Ттр	Ile	Val	The 105	Arg	Pro	Gln	Trp	Lys 110)Ind	Pro
	Lys	Glu	Pro 115		Ser	Thr	Ile	Leu 120	His	Pro	Asn	Gly	Gly 125	Thr	Glu	Gln
25	Gly	Ala 130		Gly	Ser	Met	Pro 135		Tyr	Ser	Gly	Asn 140	Asn	Met	Азр	Lys
30	Ser 145		Ser	Glu	Leu	Asn 150		Glu	Val	Ala	Ala 155	Arg	Lys	Arg	Aan	Leu 150
	Ala	Leu	Asp	Glu	Ala 165		Gln	Arg	Ser	Thr 170		Xaa				
35	(2)	INF	ORMA	MOIT	FOR	: SEC	OI (NO:	454:							
40			(1)	SBQU	ENCE (A) I (B) I	E CHA LEDIG' I'YPE I'OPOI	ARACI TH: ! : am LOGY	TERIS 96 ar ino a : lir	STICS mino acid near	s: acio		7: 4 5	5 4 :			
45	Mert 1		· ні.	i Val	. 17-43 5.		Ala	a Gir	. Val	Thr		Val	* 1 * 2 *	· 11.	Tir	
	Val	. Ser	r Val	l Len 20		l Phe	e Asp	o Phe	3 Ary 25		Ser	Leu	ı Glu	i Phs 30		: Leu
50	Glu	ı Ald	а Хас З		r Val	l Xa:	a Let	ı S∉ı 40		e Phe	e Ile	: Tyr	ABr 45		a Sor	Lys
										. 1 .		• :		5.	. • .	• **

As then the Lym Li. Typ for Appellinger App. For App. The Lie Kap 60

 $\Delta_{\rm eff} = (e^{-i \lambda_{\rm eff}} + i \lambda_{\rm eff}) + (e^{-i \lambda_{\rm eff}} + i \lambda_{\rm eff}) + \lambda_{\rm eff}$

5																
	(2)	INFO	DFMAT	NOI	FOR	SEQ	ID N	10:4	55 :							
10				()	A) L B) T D) T	CHAF ENGTH YPE: OPOLO E DES	i: l' amir XXY:	71 ar no ac line	mino ciù ear	aci		: 45	5 :			
15	Met 1	Arg	Gly	Pro	Ala 5	Gln	Ala	Lys	Leu	Leu 10	Pro	Gły	Ser	Ala	Ile 15	Gln
20	Ala	Leu	Val	Gly 20	Leu	Ala	Arg	Pro	Leu 25	Val	Leu	Ala	Leu	Leu 30	Leu	Val
_0	Ser	Ala	Ala 35	Leu	Ser	Ser	Val	Val 40	Ser	Arg	Thr	Asp	Ser 45	Pro	Ser	Pro
25	Thr	Val 50		Asn	Ser	His	11e 55	Ser	Thr	Pro	Asn	Val 60	Asn	Ala	Leu	Thr
	His 65		Asn	Gln	Thr	Lys 70	Pro	Ser	Ile	Ser	Gln 75	Ile	Ser	Thr	Thr	Leu 80
30	Pro	Pro	Thr	Thr	Ser 85		Lys	Lys	Ser	Gly 90		Ala	Ser	Val	Val 95	Pro
35	His	Pro	Ser	Pro 100		Pro	Leu	Ser	Gln 105		Glu	Ala	Asp	Asn 110		Glu
	Asp	Pro	Ser 115		: Glu	Glu	Glu •	Asp 120		Leu	Met	Leu	. Asn 125		Ser	Pro
40	Ser	Thr 130		Lys	: Asp	Thr	Leu 135		Asn	Gly	Asp	140		Glu	Pro	Asp
	Tyr 145) Trp	Thr	Thr	Gly 150		Arg	Asp	Asp	Asp 155		ı Ser	Asp	Xaa	160
45	Leu	Gly	/ Arg	j Lys	Glr 165	ı Gly	· Leu	His	: Gly	Asn 170		1				
50	(2)	INE	FORMA	MOITA	1 FOE	R SEÇ) ID	NO:	456 :							
55					(A) (B) (D)	E CHA LENG TYPE TOPO: CE DI	TH: : am LOGY	92 ai ino : : li:	mino acid near	aci		0:4	56:			
60		Ly: l	s Ala	a Se		n Cys 5	s Cys	s Cys	з Су:	s Lei		r Hi:	s Le	ı Lev	ı Ala 19	a Ser 5

	Val	Leu	Leu	Leu 20	Leu	Leu	Leu	Pro	Glu 25	Leu	Ser	Jly	Kaa	Leu 30	Наа	Val
5	Leu	Leu	Gln 35	Ala	Ala	Glu	Ala	Ala 40	Pro	Gly	Xaa	Gly	Pr5 45	Pro	Asp	Pro
	Arg	Pro 50	Jly	His	Tyr	Arg	Arg 55	Сув	His	Arg	Ala	Leu 60	Thr	Pro	Ala	Gln
10	Gln 65	トエン	Gly	Arg	Gly	Leu 70	Ala	Glu	Ala	Ala	Gly 75	A1.a	Ala	Gly	Leu	Arg 80
15	Gly	Ara	::::::::::::::::::::::::::::::::::::::	Trp	Gln 85	Gln	Pro	Cys	Gly	Arq 90	Ala	Хаа				
20	(2)	IIF)						NO: 4 ERIS		:						
				(A) L B: T D: T	ENGT: YPE: OPOL	H: 2 ami OGY:	no a no a lin PTIO	mino cid ear	aci		: 45	7:			
25	Ile 1	Ser						His						Leu	Pro 15	Glu
30	Leu	Thr	Ala	Glu 20		Leu	Glu	Ala	Gly 25	Asp	Ser	Asn	Gln	Phe 30	Cys	Trp
	Arg	Asn	i Deb 35		Jer	Cys	Ile	Asn 40	Leu	Leu	Arg	Ile	Leu 45	Asn	Lys	Leu
35	Thr	Був 50		Ly ji	His	Ser	Arg 55	Thr	Met	Het	Leu	Val 60		Phe	Lys	Ser
40	Ala 65		e lle	: Leu	E Dyo	Arg 70		Leu	Lys	Val	Lys 75		ı Alü	Met	Met	Gln 80
40	Leu	Туз	s Val	l Leu	i Lys as		Let	ı Lys	Val	Gln 90		Lys	Tyr	Leu	. Gly 95	Arq
45	3ln	ı Tr	o At	1 Ly : 10.		Asn	Med	Lyn	7) tr 105		Ser	Ala	ı Ild	113	Glr	ı Lys
	Val	. Ar	g Hi. 115		1 50	: Asn	. Asp	20 Asp		Ala	. Tyr	oly	7 Apr 125) Let	і Аяр
50	Ala	13°		o Trp	o Asr	Phe	e Glr 135	n Ala 5	. Glu	. 31v	פיניי) ו	140		ı Arq	, Alá	a Asir
	* ',		8	+ 15+ s	• .	• •	. ••		. -	2.00		: 53	. 37+	٠,,		ter
							S. e.								. .	· · · · · ·
60	Mari	1	t. In	u li 150		1 AM	* 1.10	. jl:	i Med I Med	as≓f N		71.	t * * * * *	1 1 1		

	Arg	Glu	Val 195	Phe	Ser	Lys !		11e 200	Ser '	Trp	Glu		Leu 205	Leu					
5																			
	(2)	INFO	RMAT	ION	FOR	SEQ	ID N	0: 4	58:										
0			(i) S (xi)	() () ()	A) LE B) T' D) T(ENGTH (PE : OPOLO	I: 31 amir XGY:	17 ar no ac line	mino cid ear	acio		: 458	3 :						
15	Met 1	Ala	Pro	Pro	Ala 5	Pro	Gly	Pro	Ala	Ser 10	Gly	Gly	Ser	Gly	Glu 15	Val			
20	Asp	Glu	Leu	Ph e 20	Asp	Val	Lys	Asn	Ala 25	Phe	Tyr	Ile	Gly	Ser 30	Tyr	Gln			
2()	Gln	Cys	Ile 35	Asn	Glu	Ala	Xaa	Хаа 40	Val	Lys	Leu	Ser	Ser 45	Pro	Glu	Arg			
25	Asp	Val 50	Glu	Arg	Asp	Val	Phe 55	Leu	Tyr	Arg	Ala	Tyr 60	Leu	Ala	Gln	Arg			
	Lys 65	Phe	Gly	Val	Val	Leu 70	qaA	Glu	Ile	Lys	Pro 75	Ser	Ser	Ala	Pro	Glu 80			
30	Leu	Gln	Ala	Val	Arg 85	Met	Phe	Ala	Asp	Tyr 90	Leu	Ala	His	Glu	Ser 95	Arg			
35	Arg	Asp	Ser	11e 100		Ala	Glu	Leu	Asp 105	Arg	Glu	Met	Ser	Arg 110	Ser	Xaa			
55	Asp	Val	Thr 115	Asn	Thr	Thr	Phe	Leu 120	Leu	Met	Ala	Ala	Ser 125	Ile	Tyr	Leu			
40	His	Asp 130	Gln	Asn	Pro	Asp	Ala 135		Leu	Arg	Ala	Leu 140		Gln	Gly	Asp			
	Ser 145		ı Glu	Cys	Thr	Ala 150	Met	Thr	Val	Gln	Ile 155		Leu	. Lys	Leu	Asp 160			
45	Arç	, Lei	ı Asp	Leu	Ala 165		Lys	Glu	Leu	Lys 170		Met	Gln	Asp	Leu 175	Asp			
50	Glu	ı Ası	o Ala	Thr 130		Thr	Gln	ı Lev	Ala 185		Ala	Trr	Val	Ser 190		Ala			
50	Thi	Gly	/ Gly 195		ı Lys	: Leu	Glr	200		Tyr	Тут	Ile	205		Glu	Met			
55	Ala	a Ası 21		: Суз	s Ser	Pro	215		ı Lev	ı Lev	ı Lev	Asr 220		/ Glr	a Ala	Ala			
	Cy: 22!		s Met	: Ala	a Glr	n Gly 230		g Trj	o Glu	ı Alā	Ala 235		ı Gly	/ Lev	ı Leu	Gln 240	-	•	-
60	an.	1 A I	a Let	1 A S 1	o Ive	a Asr	s Sei	r Gl	י דיעד	. Pro	o Glu	ı Th:	r Le	ı Val	Asr	ı Leu			

		245	250	255
	Ile Val Lou Ser 260	Cln His Leu (Gly Lys Pro Pro Glu V 265	al Thr Abn Arg 270
5	Tyr Leu Ser Gln 275		Ala His Arg Ser His Pi 280 - 29	ro Phe Ile Lys 85
10	Glu Tyr Gln Ala 290	Lys Glu Asn . 295	Asp Phe Asp Arg Leu V. 300	al Leu Gln Tyr
	Ala Pro Ser Ala 305	Glu Ala Gly 310	Pro Glu Leu Ser Gly P 315	ro
15				
	(2) INFORMATION	FOR SEQ ID N	ic: 459:	
20		JENCE CHARWCTE (A) LENGTH: 20 (B) TYPE: amin	61 amino acids	
		(D) TOPOLOGY:		:
25	Arg Asp Val Glu 1	ı Arg Asp Val 5	Phe Leu Tyr Arg Ala T 10	fyr Leu Ala Gin 15
30	Arg Lys Phe Gl		Asp Glu Ile Lys Pro S 25	Ser Ser Ala Pro 30
30	Glu Leu Gln Al 35	a Val Arg Met	Phe Ala Asp Tyr Leu A	Ala His Glu Ser 45
35	Arg Arg Asp Se 50	r Ile Val Ala 55	Jlu Leu Asp Arg Glu ! 60	Met Ser Arg Ser
	Xaa Asp Val Th 65	r Asn Thr Thr 70	Phe Leu Leu Met Ala . 75	Ala Ser Ilo Tyr 80
40	Leu His Asp Gl	n Asn Pro Asp 85	Ala Ala Leu Arg Ala 90	Leu His Gln Gly 95
45		u Cys Thr Ala O	Met Thr Val Gln lle 105	Leu Leu Lys Leu 110
4.)	Asp Arg Leu As 115	p beu Ala Arg	i Lys Glu Leu Lys Afi 120	Met Gln App Len 125
50	Asp Glu Asp A	ta Thr Leu Thr 135	c Ğln Leu Ala Thr Ala 5 140	Trp Val Ser Leu
	Ala Thr Gly G	ly ölu Lys Let	r Gin Amp Ala Tyr Tyr	The Phe Glm Glu
0.4		er Alamali, el al	, Arring Ald Ala Ala 198	11 - 7 1- 11- 1- 7 1 •

	Gln	Ğlu	Ala 195	Leu	qaA	Lys	Asp	3er 200	Gly	Tyr	Pro	Glu	Thr 205	Leu	Val	Aon
5	Leu	Ile 210	Val	Leu	Ser	Gln	His 215	Leu	Gly	Lys	Pro	Pro 220	Glu	Val	Thr	Asn
	Arg 225	Tyr	Leu	Ser	Gln	Leu 230	Lys	Asp	Ala	His	Arg 235	Ser	Hıs	Pro	Phe	11e 240
10	Lys	Glu	Tyr	Gln	Ala 245	Lys	Glu	Asn	qzA	Phe 250	Asp	Arg	Leu	Val	Leu 255	Gln
15	Tyr	Ala	Pro	Ser 260	Ala											
20	(2)	INF		rion												
20				(A) L B) T D) T	ENGT YPE: OPOL	H: 1 ami OGY:	55 a no a lin	mino cid ear	aci		. 16	0 -			
25	Met 1	Lys		SEQ Ile										His	His 15	Ile
30	Ile	Arg	Leu	Phe 20	Asp	Gln	Pro	Gly	App 25	Pro	Leu	Lys	Arg	Ser 30	Ser	Phe
	Ile	Ile	Tyr 35		Ile	Met	Asn	Glu 40	Leu	Met	Gly	Lys	Arg 45	Phe	Ser	Pro
35	Lys	Asp 50		Asp	Asp	Asp	Lys 55		Phe	Gln	Ser	Ala 60	Met	Ser	Ile	Cys
40	Ser 65	Ser	Leu	Arg	Asp	Leu 70	Glu	Leu	Ala	Tyr	Gln 75	Val	His	Gly	Leu	Leu 80
					85					90					95	
45				100					105					110		Ile
			115					120					125			Phe
50	Pro	His 130		Gln	Thr	Met	Ile 135		Leu	Leu	Gln	Ala 140		. Asp	Val	Ala
55	Asn 145		Leu	ı Glu	Val	Ile 150		Lys	: Ile	Trp	Glu 155					
	(2)	INF	ORMA	TION	FOR	SEQ	ID	: OM	461:							

60 (i) SEQUENCE CHARACTERISTICS:

							H: 1 ami			acio	ts					
				ί.) T	pol	PGT:	line	ear			461				
5			(xi)	SEÇt	JENCI	E DES	SCRIE	PTICE	l: SE	EÇ H) N:):	: 45l	L:			
	Lys 1	Asp	Ser	Lys	Glu 5	Tyr	Gly	His	Thr	Phe 10	Arg	Ser	Аяр	Leu	Arg 15	Glu
10	Glu	Ile	Leu	Met 20	Leu	Met	Ala	Arg	Asp 25	Lys	His	Pro	Pro	Glu 30	Leu	Gln
	Val	Ala	Phe 35	λla	Asp	Cys	Ala	Ala 40	Asp	Ile	Lys	Ser	Ala 45	Tyr	Glu	Ser
15	Gln	Pro 50	Ile	Arq	Gln	Thr	Ala 55	Gln	Asp	Trp	Pro	Ala 60	Thr	Ser	Leu	Asn
20	Cys 65	Ile	Ala	Ile	Leu	Phe 70	Leu	Arg	Ala	Gly	Arg 75	Thr	Gln	Glu	Ala	Trp 80
20	Lys	Met	Leu	Gly	Leu 85	Ph.e	Arg	Lys	His	Asn 90	Lys	Ile	Pro	Arg	Ser 95	Glu
25	Leu	Leu	Asn	Glu 100	Leu	Met	Asp	Ser	Ala 105	Lys	Val	Ser	Asn	Ser 110	Pro	Ser
	Gln	Ala	11e	Glu	Val	Val	Glu	Leu 120	Ala	Ser	Ala	Phe	Ser 125	Leu	Pro	Ile
30	Cys	Glu 130	Gly	Leu	Thr	Gln	Arg 135		Met	Ser	Asp	Phe 140	Ala	:le	Asn	Gln
35	145		Lys			150					155					160
	Asp	Thr	gaA :	Ser	Ser 165		Asp	Ser	Asp	Ser 170		Thr	Ser	Glu	Gly 175	
40																
45	(2)	III	POPMA	ΛΌΙΤ.	I FOR	R GEQ	QI (M:	452							
			(½)		(A)	LENG	ARACI IH: : am	324 -	amin	o ac	ids					
50			(xi				LOGY ESCR			SEQ	ID N	o: 46	62:			
	Mest	i Set	r Sei	C AST	o Asi	ı Çli	i Sai	i Asy	o Ile	e Glu	i Asş	o Glu	ı Ası	p I <i>er</i> u	ı Lys	: Len
	1	·	i Ai			144.		. 1			g Ier	1		: : :	. 191	: 415

	Lys	Val 50	Pro	Pro	Ala	Val	Ile 55	Ile	Pro	Pro	Ala	Ala 60	Pro	Leu	Ser	Gly
5	Arg 65	Arg	Arg	Arg	Pro	Thr 70	Lys	Ser	Lys	Gly	Ser 75	Lys	Ser	Ser	Arg	Ser 80
	Ser	Ser	Leu	Gly	Asn 85	Lys	Ser	Pro	Gln	Leu 90	Ser	Gly	Asn	Leu	Ser 95	Gly
10	Gln	Ser	Ala	Ala 100	Ser	Val	Leu	His	Pro 105	Gln	Gln	Thr	Leu	His 110	Pro	Pro
15	Gly	Asn	Ile 115	Pro	Glu	Ser	Gly	Gln 120	Asn	Gln	Leu	Leu	Gln 125	Pro	Leu	Lys
15	Pro	Ser 130	Pro	Ser	Ser	Asp	Asn 135	Leu	Tyr	Ser	Ala	Phe 140	Thr	Ser	Asp	Gly
20	Ala 145	Ile	Ser	Val	Pro	Ser 150	Leu	Ser	Ala	Pro	Gly 155	Gln	Gly	Thr	Ser	Ser 160
	Thr	Asn	Thr	Val	Gly 165	Ala	Thr	Val	Asn	Ser 170	Gln	Ala	Ala	Gln	Ala 175	Gln
25	Pro	Pro	Ala	Met 180	Thr	Ser	Ser	Arg	Lys 185	Gly	Thr	Phe	Thr	Asp 190	Asp	Leu
30	His	Lys	Leu 195		Asp	Asn	Ттр	Ala 200	Arg	Asp	Ala	Met	Asn 205	Leu	Ser	Gly
50	Arg	Arg 210		Ser	Lys	Gly	His 215	Met	Asn	Tyr	Glu	Gly 220	Pro	Gly	Met	Ala
35	Arg 225		Phe	Ser	Ala	Pro 230		Gln	Leu	. Cys	: Ile 235		Met	Thi	Ser	Asn 240
	Leu	Gly	Gly	ser	Ala 245		Ile	Ser	Ala	Ala 250		Ala	. Thr	· Ser	Leu 255	Gly
40	His	Ph∈	Thr	Lys 260		Met	Cys	Pro	Pro 265		ı Gln	Tyr	Gly	270		Ala
45	Thr	Pro	Phe 275		/ Ala	. Glm	Trp			/ Thi		/ Gly	285		a Pro	Gln
15	Pro	290		/ Glr	n Ph∈	e Glr	295		. Gly	/ Thi	c Ala	ser 300		ı Glr	n Asr	n Phe
50	Asr 309		e Sei	Asr	ı Lev	310		s Ser	r Ile	e Se:	r Asr 315		Pro	o Gly	y Ser	Asn 320
	Lev	u Arg	g Thi	r Thr												
55	(2) TAT	MROB	ATIOI	1 E∪i	R SF(חז כ	NO:	463	:						
	12	الانتدار		🗥			×									

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 133 amino acids

			(xi)	()	D) T	CFOL	OGY:	no a line PTIC	ear	EQ II	0 NO:	: 45.	3 :			
5	Ile 1	Gln	Asp	Let:	Gln 5	Ser	Yrg	Gln	Lys	His 10	Glu	Ile	Glu	Ser	Leu 15	Tyr
10	Thr	Lys	Leu	Gl; 20	Lys	Val	Pro	Pro	Ala 25	Val	Ile	Ile	Pro	Pro 30	Alā	Ala
10	Pro	Leu	Ser 35	Gly	Arg	Arg	Arg	Arg 40	Pro	Thr	Lys	Ser	Lys 45	Gly	Sar	Lys
15	Ser	Ser 50	Arg	Ser	Ser	Ser	Leu 55	Gly	Asn	Lys	Ser	Pro 60	Gln	Leu	Ser	Glγ
	Asn 65	Leu	Ser	Gly	Gln	Ser 70	Ala	Ala	Ser	Val	Leu 75	His	Pro	Gln	Gln	Thr 80
20	Leu	His	Fro	Pro	Gly 85	Asn	Ile	Pro	Glu	Ser 90		Gln	Aon	Gln	Leu 95	Leu
25	Gln	Pro	Leu	Lys 100	Pro	Ser	Pro	Ser	Ser 105	Asp	Asn	Leu	Tyr	Ser 110	Ala	Phē
20	Thr	Ser	Asp 115		Ala	Ile	Ser	Val 120		Ser	Leu	Ser	Ala 125	Pro	Gly	Gln
30	Gly	Thr 130		Ser	Thr											
35	(2)	IIIF						NO: TERIS		5:						
40			(xi)		(B) ' (D) '	TYPE TC:POI	: am LOGY	53 ar ino a : lin IPTIC	acid near): 4 6	54:			
	Thr		: Asp	o Gly		a Ile	d Set	r Val	. Pro	Sei lo		. Ser	r Ala	a Pro	31) 15	
45	Gly	7 Thi	c Sen	r Ser Of		c Asr	n Thi	r Val	i Gly		ı Thr	- Val	l Asr	1 3m: 20		n Ala
50	Ala	a Glr	n Ala		n Pr	o Pro	o Ala	a Met 4(c Se	r Ser	r Ar	g Lys 45		/ Thi	r Phe
50	Thi	r Ası Si		o Le	ı Hi	3										

. TROUGHNEY CHAFACTER LETTER . (A) LHDSTH: 48 amino endo (B) TYPE: amino end

60

	(D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 465.
	(XI) SEQUENCE DESCRIPTION. SEQ IS NO. 1991
5	Lys Gly His Met Asn Tyr Glu Gly Pro Gly Met Ala Arg Lys Phe Ser 1 5 10 15
	Ala Pro Gly Gln Leu Cys Ile Ser Met Thr Ser Asn Leu Gly Gly Ser 20 25 30
10	Ala Pro Ile Ser Ala Ala Ser Ala Thr Ser Leu Gly His Phe Thr Lys 35 40 45
15	
	(2) INFORMATION FOR SEQ ID NO: 466:
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 31 amino acids (B) TYPE: amino acid (D) TOPOLOGY: linear
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 466:
23	Gln Pro Leu Lys Pro Ser Pro Ser Ser Asp Asn Leu Tyr Ser Ala Phe 1 5 10 15
30	Thr Ser Asp Gly Ala Ile Ser Val Pro Ser Leu Ser Ala Pro Gly 20 25 30
35	(2) INFOFMATION FOR SEQ ID NO: 467:
	(i) SEQUENCE CHAFACTERISTICS: (A) LENGTH: 57 amino acids (B) TYPE: amino acid
40	(D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 467:
	Val Arg Val Ala Ala Ala Glu Ser Met Xaa Leu Leu Glu Cys Ala 1 5 10 15
45	Xaa Val Arg Gly Pro Glu Tyr Leu Thr Gln Met Trp His Phe Met Cys 20 25 30
50	Asp Ala Leu Ile Lys Ala Ile Gly Thr Glu Pro Asp Ser Asp Val Leu 35 40 45
50	Ser Glu Ile Met His Ser Phe Ala Lys 50 55
55	(2) INFORMATION FOR SEQ ID NO: 468:
	(i) SEQUENCE CHARACTERISTICS:
60	(A) LENGTH: 85 amino acids
60	(R) TYPE: amino acid

			(xi)			OPOL				EQ II	D 110	: 46	8 :			
5	Met 1	Glu	Ile	Asn	Asn 5	Gln	Asn	Суз	Phe	Ile 10	Val	Ile	Asp	Len	Val 15	Arg
	Thr	Val	Met	Glu 20	Asn	3ly	Val	Glu	Gly 25	Leu	Leu	Ile	Phe	Gly 30	Ala	Phe
10	Leu	Pro	Glu 35	Ser	Trp	Leu	fle	Gly 40	Val	Arg	Суз	Ser	Ser 45	Glu	Pro	Pro
15	Lys	Ala 50	Leu	Leu	Leu	Ile	Leu 55	Ala	His	Ser	Gln	Lys 60	Arg	Arq	Leu	Asr
15	Gly 65	Trp	Ser	Phe	Ile	Arg 70	His	Leu	Arg	Val	His 75	Tyr	Cys	Val	Ser	Les 80
20	Thr	Ile	His	Phe	Ser 85											
25	(2)	INF	ORMA (i)	SEQU (ENCE (A) I	: CHA LENGT	RACT	ERIS	TICS nino	: acid	ls					
30			(xi)	1	(D) I	TYPE: TOPOL E DE	JOGY :	lir	near	EQ I	D NC): 4 6	59:			
	Gln 1		Lys	His	Ala 5		Glu	Val	Arg	Lys 10		. Lys	Glu	ı Leu	. Lys 15	
35	Glu	ı Ala	. Ser	Arg 20												
40	(2)	INF	FORMA	101T	I FOR	R SEÇ) ID	NO:	470:							
45					(A) : (B) ' (D) :	LING Type Topoi	roga : aw	92 ar ino a : li:	mino acid near	aci	ds ID NO	o: 4°	70 :			
50		n Glr l	n Asp) Lev	ı Ser) Trp	Ala	a Ala	a Pro		. Gly	y Cys	s Pr	, Let 1º	
	Хаа	a Ala	n Sen	r Xa: 2:		c Cys	s His	Xac	Let 25		o Let	ı Sei	r Gly	Z Cyr 3(ı Ar

 60° . Cyc. Pro-Phe Pro-Ser Lea for Phe-Gin Aup Lya His Ala Ser Sia Val

	£5					70					75					80		
5	Arg I	Jya ≥	en 1	Jys (31u I 35	leu i	iys (Glu (Glu i	Ala: 90	Ser A	Arg						
	2) 2	le:	YAT:	:::::::::::::::::::::::::::::::::::::::	FOR S	EQ :	ID NO	⊃: 4 ″	71:									
10				/ 3 / 3 : 2	11CE (3) LE 1) TY 2) TO	NGTH PE: POLC	ı: 37 amin XGY:	ami c ac line	no a id ar	cids								
15	ĒΣŌ ,				TICE Cys (5									Ala	Arg 15	Arg		
20	Pro 1	Dys i	ITD '	721 20		Met	Val	Pro	Ser 25		Glu	Gly	Arg	Glu 30	Kaa	Gln		
	Pro 1	Trr '	0ys 35	Pto	Ser													
25	' 2)	<u> </u>	73/2LT	2237	FOR	SEQ	ID N	ic: 4	72:									
30				() ()	DICE A) LE B) TY D) TY VEDICE	DIGT! (PE: CPOLA	i: 36 amir DG7:	53 ar no ac line	mino cid ear	aci		: 472	2 :					
35	Met 1	L ₂ /3	Arg	Ser	Leu 5	Asn	Glu	Asn	Ser	Ala 10	Arg	Ser	Thr	Ala	Gly 15	Cys		
40	ieu	321	Val	Pro 20	Leu	?he	Asn	Gln	Lys 25	Lys	Arg	Asn	Arg	Gln 30	Pro	Leu		
			3.5		Leu			40					45					
45		50					55					60				Val		
5 0	65					70					75					Ile 80		
50					85					90					95			
55				100					105					110		Arg Phe		
			115					120					125			Asn	ē	-
60	-13	131	غصدات	- y 3	-43	9	135					140		1	- 1 -			

	s⇔r 145	Cys	Pro	Met	Ser	Ser 150	Glγ	Ala	Gln	Gln	Gln 155	Lys	Gln	Leu	Arg	Thr 160
5	Pro	Glu	Pro	Pro	Asn 165	Leu	Ser	Arg	Asn	Lys 170	Glu	Thr	Glu	Leu	Leu 175	Arg
10	Gln	Thr	His	Ser 180	Ser	Lys	He	Ser	Gly 185	Cys	Thr	Met	Arg	Gly 190	Leu	Asp
10	L''.'s	Aon	Ser 195	Ala	Leu	Gln	Thr	Leu 200	Lys	Pro	Asn	Phe	Gln 205	Gln	Asn	Gln
15	Tyr	Lys 210	Xaa	Gln	Met	Leu	Asp 215	Asp	Ile	Pro	Glu	Asp 220	Asn	Thr	Leu	Lys
	Glu 225	Thr	Ser	Leu	Tyr	Gln 230	Leu	Gln	Phe	Lys	Glu 235		Ala	Ser	Ser	Leu 240
20	Arg	Il:	He	Ser	Ala 245	Val	Ile	Glu	Ser	Met 250		Tyr	Trp	Arg	Glu 255	
25	Ala	Gln	Lys	Thr 260		Leu	Leu	Phe	Glu 265		Leu	Ala	Val	Leu 270	Asp	Ser
2.7	Ala	Val	Thr 275		Gly	Pro	Тут	Tyr 280		Lys	Thr	Phe	Leu 285	Met	Arg	Asp
30	Gly	Lys 290		Thi	Leu	Pro	Суs 295		Phe	Tyr	· Glu	300		Arg	Glu	Leu
	Pro 305		, Leu	Ile	Arg	Gly 310		: Val	His	Arg	д Сув 315		Gly	Asn	. Tyr	320
35	Gln	Lys	Lys	: Asr	1 11e 325		: Glr	г Суз	: Val	. Ser 330		. Arç	Pro	Ala	Ser 33°	Val
40	Sei	Glu	ı Glr	1 Lys 34(r Phe	e Glr	n Alā	a Ph∈ 345		l Lys	: Ile	e Ala	. Азр 350		Glu
	Met	: Glr	туя 359		: Ile	e Asr	ı Val	360		n Glu	ı Thi	5				
45	(2) III	PY RM	AT I DI	ı FOI	R SEM	Q ID	150:	473	:						
					UENC	E CH	AFAC'		STIC	S:	.ds					
50			(xi) SE	(B)	TYPE TOPO	i an Logi	ino : li	acid near			o: 4	73 :			
					-											

606

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5	(2) INFORMATION FOR SEQ ID NO: 474:
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 36 amino acids (B) TYPE: amino acid (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 474:
1.5	Asn Lys Glu Thr Glu Leu Leu Arg Gln Thr His Ser Ser Lys Ile Ser 1 5 10 15
15	Gly Cys Thr Met Arg Gly Leu Asp Lys Asn Ser Ala Leu Gln Thr Leu 20 25 30
20	Lys Pro Asn Phe 35
25	(2) INFORMATION FOR SEQ ID NO: 475:
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 49 amino acids (B) TYPE: amino acid (D) TOP(LOGY: linear
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 475:
	Ser Ser Leu Arg Ile Ile Ser Ala Val Ile Glu Ser Met Lys Tyr Trp 1 5 10 15
35	Arg Glu His Ala Gln Lys Thr Val Leu Leu Phe Glu Val Leu Ala Val 20 25 30
4.0	Leu Asp Ser Ala Val Thr Pro Gly Pro Tyr Tyr Ser Lys Thr Phe Leu 35 40 45
40	Met
45	(2) INFORMATION FOR SEQ ID NO: 476:
50	(i) SEQUENCE CHARACTERISTICS: (A) LEWSTH: 42 amino acids (B) TYPE: amino acid
	(D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 476:
55	Pro Arg Leu Ile Arg Gly Arg Val His Arg Cys Val Gly Asn Tyr Asp 1 5 10 15
	Gln Lys Lys Acn Ile Phe Gln Cys Val Ser Val Arg Pro Ala Ser Val 20 25 30
60	Ser Glu Gln Lys Thr Phe Gln Ala Phe Val

5	(2)	INFO	FMAT	ION E	FOR	SEQ	ID N	0:4	77:							
10				(B	() LE () TY () TC	INGTE (PE : (POLC	I: 37 amir XGY:	0 am no ac line	nino id ar	acid		477	:			
15	Gly 1	V.il	Phe	Arg	Pro 5	Cys	Val	Cys	Gly	Arg 10	Pro .	Ala	Ser	Leu	Thr 15	Cys
13	Ser	Pro	Leu	Asp 20	Pro	Glu	Val	Gly	Pro 25	Tyr	CYS	Asp	Thr	Pro 30	Thr	Me-t,
20	Arq	Thr	Lթս 35	БЙЭ	Ash	T.≓u	T.≘n	40 ىلىس	Len	Ala	Ĭ.₽LE	Ala	Cys 45	Sar	Pro	Val
	His	Thr 50	Thr	Leu	Ser	Lys	Ser 55	Asp	Ala	Lys	Lys	Ala 60	Ala	Ser	Lys	Thr
25	Leu 65	Leu	Glu	Lys	Ser	Gln 70	Phe	Ser	Asp	Lys	Pro 75	Val	Gln	Asp	Arg	80 Gly
20	Leu	Val	Val	Thr	Asp 85	Leu	Lys	Ala	Glu	Ser 90	Val	Val	Leu	Glu	His 95	Arg
30	Ser	Тут	Pys	Ser 100	Ala	Lys	Ala	Arg	Asp 105	Arg	His	Phe	Ala	Gly 110	Asp	Val
35	Leu	Gly	Tyr 115	Val	Thr	Pro	Trr	Asn 120	Ser	His	Gly	Tyr	Asp 125	Val	Thr	Lys
	Val	Phe 130		Ser	Lys	Phe	Thr 135		He	Ser	Pro	Val 140	Trp	Leu	Gln	Leu
40	Lys 145		Arg	Gly	Arg	Glu 150		Phe	Glu	Val	Thr 155		Leu	His	Asp	Val 160
	A.ap	Gln	dly	Trp	Met 169		Ala	Val	Arg	Lys 170	His	Ala	Lys	Gly	Leu 175	His
45	fle	Val	Pr	Arg 180		L⊬u	. Pha	: Glu	: Алр 185		Thr	Tyr	Asp	Asp 190	Phys	- Arg
50	Asn	. Val	. Leu 195		Set	Glu	ı Asp	Glu 200		: Glu	ı Glu	. Leu	Ser 205	Lys	Thr	- Val
	Val	glr	n Vel	l Ala	Lys	: Asr	n Glr		: Phe	e Aup	s Sly	: Phe	· Val	. Val	. Gh	ı Val

The Hi constant Approximation His Circ Algorithm Approximation $\Delta H_{\rm A}$

	Val	Ile	Pro	Pro 260	Ala	Ile	Thr	Pro	Gly 265	Thr	Asp	Gln	Leu	Gly 270	Met	Phe		
5	Thr	His	Lys 275	Glu	Phe	Glu	Gln	Leu 280	Ala	Pro	Val	Leu	Asp 285	Gly	Phe	Ser		
	Leu	Met 290	Thr	Tyr	Asp	Tyr	Ser 295	Thr	Ala	His	Gln	Pro 300	Gly	Pro	Asn	Ala		
10	Pro 305	Leu	Ser	Trp	Val	Arg 310		Cys	Val	Gln	Val 315	Leu	Asp	Pro	Lys	Xaa 320		
15	Lys	Trp	Arg	Thr	Lys 325	Ser	Ser	Trp	Gly	Ser 330	Thr	Ser	Met	Kaa	Trp 335	Thr		
15	Xaa	Arg	Xaa	Pro 340	Xaa	Asp	Ala	Arg	Xaa 345		Val	Val	Gly	Xaa 350		Xaa		
20	Ile	Gln	Xaa 355	Leu	Lys	Asp	His	Хаа 360		Arg	Met	Val	Leu 365	Asp	Ser	Lys		
	Pro	Gln 370																
25																		
	(2)	INF	ORMA'	TION	FOR	SEQ	ID	NO:	4 78:									
30				((A) I (B) T (D) T	LENGT TYPE : TOPOI	TH: 3 : ami	39 an .no a : lir	mino acid near	acio): 4 7	8:					
35	Thr 1		Ser	Pro	Leu 5	_	Prc	Glu	. Val	Gly 10		Tyt	Суз	Asp	Thr 15	Pro		
40	Thr	Met	Arg	Thr 20		ı Ph∈	e Asn	. Leu	Leu 25	_	Leu	Ala	Leu	. Ala 30		Ser		
70	Pro	Val	His	Thr	Thr	Leu	ı Ser											
45	(2)	INF	ORMA	MOITA	I FOF	R SEÇ) ID	NO:	479:									
50					(A) : (B) ' (D) '	LENG TYPE TOPO:	TH: : am LOGY	54 au ino (: li:	mino acid near	aci		D: 47	79:					
55	Leu 1		l Val	l Thr		o Lev	ı Lys	s Ala	a Glu	ı Sei 10		l Val	. Lev	ı Glu	ı His	Arg		
	Ser	Ty:	Cys	s Ser 20		a Lys	s Ala	a Arg	д Азр 25		g His	s Phe	≥ Ala	a Gl <u>y</u> 30		val	-	
60	Leu	ı Gly	/ Tyr	r Val	l Thi	r Pro	o Tr	o Ası	n Sei	e His	s Gly	y Tyr	. Ası	o Val	l Thi	Lys		

	35		40		45	
5	Val Phe Gly 50	Ser Lys Phe				
	(2) INFOFMAT	TION FOR SEQ	ID NO: 480	ī		
10		(B) TYPE:	H: 52 amino amino acio XXY: linear	o acids d	: 480:	
15		Phe Glu Val				Gly Trp 15
20	Met Arg Ala	Val Arg Lys 20		vs Gly Leu 25	His Ile Val	Pro Arq
	Leu Leu Phe	Glu Asp Trp	Thr Tyr As	ap Asp Phe	Arg Asn Val 45	Leu Asp
25	Ser Glu Asp 50	G15				
30	(2) INFORMA	TION FOR SEQ	ID NO: 48	1 :		
35		(B) TYPE:	H: 56 amin amino aci OGY: linea	o ācids d m	e: 431:	
40	His Phe Asp 1	o Gly Phe Val 5	Val Glu V	al Trp Asn 10	Gln Leu Lou	Ser Gln 15
40	Lys Ard Val	Gly Leu Ile 20		eu Thr His 25	Leu Ala Glu 30	
45	His Gln Al:	a Arg Leu Leu 5	Ala Len L 40	.eu Val Il≏	Pro Pro Ala 45	i Ilo Thr
	Pro Gly Th 50	r Asp Gln Leu	Gly Met 55			
50	(2) INFORM	ATION FOR SEQ) ID NO: 48	32 :		

 60° . Also dry the real beautest throther the Asp Tyr Der The Alastic einstein

e. ijrenja ist kilili a 10. si si 4.

	1				5					10					15	
5	Gly	Pro	Asn	Ala 20	Pro	Leu	Ser	Trp	Val 25	Arg	Ala	Суѕ	Val	Gln 30	Val	Leu
3	Asp	Pro	Lys 35	Каа	Lys	Trp	Arg	Thr 40	Lys	Ser	Ser	Trp	Gly 45	Ser	Thr	
10	(2)	111F(RMAT	ricn	FOR	SEÇ	ID 1	10: 4	1 83:							
15				(A) L B) T D) T	ENGT YPE: OPOL	H: 1 ami OGY:	52 a no a lin	mino cid ear	aci		: 48	3 :			
20	Glu l	Arg	Gly	Val	Ser 5	Ile	Asn	Gln	Phe	Cys 10	Lys	Glu	Phe	Asn	Glu 15	Arg
	Thr	Lys	Asp.	Ile 20	Lys	Glu	Gly	Ile	Pro 25	Leu	Pro	Thr	Lys	Ile 30	Leu	Val
25	Lys	F'r'o	Asp 35	Arg	Thr	Phe	Glu	Ile 40	Lys	Ile	Gly	Gln	Pro 45	Thr	Vāl	Ser
20	Тут	Phe 50	Leu	Lys	Alà	Ala	Ala 55	Gly	Ile	Glu	Lys	Gly 60	Ala	Arg	Gln	Thr
30	Gly 65	Lys	Glu	Val	Ala	Gly 70	Leu	Val	Thr	Leu	Lys 75	His	Val	Туr	Glu	Ile 80
35	Ala	Arg	Ile	Lys	A1a 85		Asp	Glu	Ala	Phe 90	Ala	Leu	Gln	Asp	Val 95	Pro
	Leu	Ser	Ser	Val 100	Val	Arg	Ser	Ile	Ile 105		Ser	Ala	Arg	Ser 110	Leu	Gly
40	Ile	Arg	Val 115	Val	Lys	Asp	Leu	Ser 120		Glu	Glu	Leu	Ala 125		Phe	Gln
15	Lys		Arg	Ala	Ile						_			. Asp	Leu	Ala
45	Ala 145		Glu	Glu	Ala	Ala 150		Lys								
50	(2)	INF	ORMA	MOITA	I FOR	: SEQ) ID	NO:	484:							
55					(A) I (B) 1 (D) 1	LENG: TYPE TOPOI	TH: : : am: LOGY	270 a ino a : lir	amino acid near	ac:		o: 48	34:			
60	Ala 1	Val	Tyr	Thr	тут 5		Glu	ı Lys	. Lys	Lys		Thr	Ala	a Ala	Ser 15	Gly

	Thr (Gly	Thr	Gln 20	Asn	Ile.	Arg	Leu	Ser 25	Arq	Asp	Ala	Val	Lys 30	Asp	Phe
5	Asp '	Cys	Сұр 35	Сув	Leu	Ser	Leu	Gln 40	Pro	Cys	His	Asp	Pro 45	Val	Val	Thi
10	Pro	Asp 50	Gly	Туг	Leu	Tyr	Glu 55	Arg	Glu	Ala	Ile	Leu 60	Glu	Tyrr	Ile	Leu
10	His 65	Gln	Lys	Lys	Glu	Ile 70	Ala	Arg	Gln	Met	Lys 75	Ala	Tyr	Glu	Lys	Gln go
15	Arg	Gly	Thr	Arj	Arg 85	Glu	Glu	Gln	Lys	Glu 90	Leu	Gln	Arg	Ala	Ala 95	Ser
	Gln	Asp	His	Val 100	Arg	Gly	Phe	Leu	Glu 105	Lys	Glu	Ser	Ala	Ile 110	Val	Ser
20	Arg	Pro	Leu 115		Pro	Phe	Thr	Ala 120	Lys	Ala	Leu	Ser	Gly 125	Thr	Ser	Pro
25	Asp	Asp 130		Gln	Pro	Gly	Pro 135	Ser	Val	Gly	Pro	Pro 140	Ser	Lys	Anp	Lys
	Asp 145	Lys	Val	Lou	Pro	Ser 150	Phe	Trp	Ile	Pro	Ser 155		Thr	Pro	Glu	Ala 160
30	Lys	Ala	Thr	Lys	Leu 165		Lys	Pro	Ser	Arg 170		Val	Thr	Cla	Pro 175	Met
	Ser	Glγ	r Lys	180		Arg	Met	. Ser	185		1 Thr	Pro	Val	His 190	Phe	: Thr
35			195	5				200)				205			: Glu
40	Arg	Ty:		l Cys	s Ala	Val	Thr 219		l yet	Sei	s Lett	220	Asr)	n Ald	a Thi	r Pro
, 0	225	,				230)				235	.)				5 Val 240
45	Glu	i Ly	a le	u Il-			3 Asi		t Val	1 A.aj 25)	p Pro O	o Va'	l Th	r (31)	7 App 1.5	p lys 5
	Lei	ı Th	r As	p Ai: 26	g Asp 0	o Il	⊋ Il∙	o Va.	1 Let 269		n Are	y Gl	y Gl	y Th: 27:	r 0	
50	(2)) Thi	FORM	IAT I-3	n fo	R SE	o in	NO:	485	:						
	1 44						-									

. Programment Model William

 60° . The less that the Ara-Cla Ale the Less Sin The Less Hill alm Lyc.

	1				5					10					15		
	Lys	Glu	Ile	Ala 20	Arg	Gln	Met	Lys	Ala 25	Tyr	Glu	Lys	Gln	Arg 30	Gly	Thr	
5	Arg	Arg	Glu 35	Glu	Gln	Lys	Glu	Leu 10	Gln	Arg	Ala	Ala	Ser 45	Gln	Asp	His	
10	Val	Arg 50	Gly	Phe	Leu	Glu											
15	(2)	INF		SEQU. (FINCE A) L	CHA ENGT	RACT!	ERIS 4 an	TICS ino	: acid	s						
20			(xi)	(D) T	OPOL	OGY :	lir	ear	EQ I	CM G	: 48	ნ:				
	Phe 1		Ala	Lys	Ala 5	Leu	Ser	Gly	Thr	Ser 10	Pro	Asp	Asp	Val	Gln 15		
25	Gly	Pro	Ser	Val 20	Gly	Pro	Pro	Ser	Lys 25	Asp	I.ys	Asp	Lys	Val 30		Pro	
30	Ser	Phe	Trp 35		Pro	Ser	Leu	Thr 40		Glu	Ala	Lys	Ala 45		Lys	Leu	
30	Glu	Lys 50		Ser	Arg	Thr	Val 55		Cys	: Pro	Met	Ser 60		· Lys	Pro	Leu	
35																	
40	(2)	INF		SEQU	JENCE (A) I	E CHI	ARACI	reri: 56 a	STIC: mino	S: acio	ls						
45			(xi		(D) '	горо	: am: LOGY ESCR:	: li	near	SEQ :	ED NO	o: 4 8	37 :				
		l His l	s Phe	e Thi	Pro		ı Asț	Se:	r Sei	r Val		o Arg	y Vai	l Gl	y Leu 19	ı Ile	
50	Th	r Arg	g Sei	r Glu 20		Tyn	r Val	L Cy.	s Ala		l Thi	r Arg	j Asj	p Se:		u Ser	
55	Ası	n Al	a Thi		o Cys	s Ala	a Val	l Le 4		g Pro	Sei	r Gly	/ Al-		l Val	l Thr	
,,	Le	u Gl [.] 5	-	s Val	l Glu	ı Ly:	s Let 59		e								-

	(2)	INFO	RMAT	100	FOR	SEQ	ID N	0: 4	:88							
5			(i) S (xi)	() ()	A) LI B) T D) T(ENGTH YPE: OPOLO	H: 50 amir DGY:	67 ar no ac line	mino did ear	acid		437	₹:			
10	Met 1	Asp	Thr	Ser	Glu 5	Asn	Arg	Pro	Glu	Asn 10	Aup	Val	Pro	Ğlu	Pro 15	Pro
	Met	Pro	Ilé	Ala 20	Asp	Gln	Val	Ser	Asn 25	Asp	App	Arg	Pro	Glu 30	Gly	Ser
15	Val	Glu	Asp 35	Glu	Glu	Lys	Lys	Glu 40	Ser	Ser	Lett	Pro	Lys 45	Ser	Pho	Lys
20	Arg	Lys 50	Ile	Ser	Val	Val	Ser 55	Ala	Thr	Lys	Gly	Val 60	Pro	Ala	Gly	Acn
20	Ser 65	Asp	Thr	Glu	Gly	Gly 70	Gln	Pro	Ġlγ	Arg	Lys 75	Arg	Arg	Trp	Gly	Ala 80
25	Ser	Thr	Ala	Thr	Thr 85	Gln	Lys	Lys	Pro	Ser 90	Ile	Ser	Ile	Thr	Thr 95	Glu
	Ser	Leu	Lys	Ser 100	Leu	Ile	Pro	Asp	Ile 105	Lys	Pro	Lēu	Ala	Gly 110	Gln	Glu
30	Ala	Val	Val 115	Asp	Leu	His	Ala	Asp 120	Asp	Ser	Arg	Ile	Ser 125		Anp	Glu
35	Thr	Glu 130	Arg	Asn	Gly	Asp	Asp 135		Thr	His	Asp	Lys 140		Leu	Lys	71∈
55	Cys 145		Thr	Val	Thr	Gln 150		Val	Pro	Ala	Glu 155	Gly	Gln	Glu	Asn	Gl ₃ 160
40	Gln	Arg	Glu	Glu	Glu 165		Glu	Glu	Lys	Glu 170	Pro	Glu	Ala	. Glu	Pro 175	
	Val	Pro	Pro	Gln 130		Ser	Val	Glu	Val 135		Leu	Pro	Pro	Pro 190		Gla
45	His	Glu	. Val 195		: Lys	: Val	Thr	Leu 200		· Airp	Thr	Lou	Thr 205		Arq	رضاؤ

60 App Lyo 11- Lyo Cer His Cys Phe Val Thr Tyr Ler Thr Val Ha Gha

Ile Ser Gln Gln Lys Ser Gly Val Ser Ile Thr Ile Asp Asp Pro Val

Arg Thr Ala Glm Val Pro Ser Pro Pro Arg Gly Lys Ile Ser Asm Ile

210 215 220

225 230 235

			275					280					285			
5	Ala	Val 290	Ala	Thr	Arg		Ala 295	Leu	His	Gly	Val	Lys 300	Trp	Pro	Gln	Ser
5	Asn 305	Pro	Lys	Phe	Leu	Cys 310	Ala	Asp	Tyr	Ala	Glu 315	Gln	Asp	Glu	Leu	Asp 320
10	Tyr	His	Arg	Gly	Leu 325	Leu	Val	Asp	Arg	Pro 330	Ser	Glu	Thr	Lys	Thr 335	Glu
	Glu	Gln	Gly	11e 340	Pro	Arg	Pro	Leu	His 345	Pro	Pro	Pro	Pro	Pro 350	Pro	Val
15	Gln	Pro	Pro 355	Gln	His	Pro	Arg	Ala 360	Glu	Gln	Arg	Glu	Gln 365	Glu	Arg	Ala
20	Val	Arg 370		Gln	Trp	Ala	Glu 375	Arg	Glu	Arg	Glu	Met 380	Glu	Arg	Arg	Glu
20	Arg 385	Thr	Arg	Ser	Glu	Arg 390	Glu	Trp	Asp	Arg	Asp 395	Lys	Val	Arg	Glu	Gly 400
25	Pro	Arg	Ser	Arg	Ser 405	Arg	Ser	Arg	Xaa	Arg 410	Arg	Arg	Lys	Glu	Arg 415	Ala
	Lys	Ser	. Lys	Glu 420		Lys	Ser	Glu	Lys 425		Glu	Lys	Ala	Gln 430	Glu	Glu
30	Pro	Pro	Ala 435		Leu	Leu	Asp	Asp 440		Phe	Arg	Lys	Thr 445	Lys	Ala	Ala
35	Pro	Cys 450		Tyr	Trp	Leu	Pro 455		Thr	Asp	Ser	Gln 460		Val	Gln	Lys
33	Glu 465		a Glu	ı Arg	, Ala	Glu 470		Ala	Lys	Glu	475		Lys	Arg	Arg	Lys 480
40	Glu	ı Glr	n Glu	ı Glu	485		Glr	Lys	: Glu	490		Lys	Glu	Ala	Glu 495	Arg
	Glu	ı Ar	g Asr	500		. Leu	Glu	ı Arç	505		s Arg	, Arg	g Glu	His 510		: Arg
45	Glu	ı Ar	g Asp 519		g Glu	a Arg	, Glu	1 Arg 520		ı Arq	g Glu	ı Arg	g Asp 525		Gly	/Asp
50	Arg	3 As		g Ası	o Arg	, Glu	535		o Arg	g Gli	u Arg	540		g Glu	ı Arg	g Asp
30	Arg 54		g Ası	p Th	r Lys	550		s Sei	r Ar	g Se.	r Arg 55		r Arç	g Ser	Thi	r Pro 560
55	Va	l Ar	g As	p Ar	g Gly 569		y Ar	3								

(2) INFORMATION FOR SEQ ID NO: 489:

	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 51 amine acids	
	(B) TYPE: amino acid	
	(D) TOPOLOGY: linear	
5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 489:	
	Gly Cys Asp Ser Cys Pro Pro His Leu Pro Ard Glu Ala Phe Ala Gin 1 5 10 15	
10	Asp Thr Gln Ala Glu Gly Glu Cys Ser Ser Arg Ala Glu Arg Ala Asp 20 25 30	
15	Met Cys Pro Asp Ala Pro Pro Ser Gln Glu Val Pro Glu Gly Pro Gly 35 40 45	
	Ala Ala Pro 50	
20	(2) INFORMATION FOR SEQ ID NO: 490:	
	() OPCURIOR THE WORLD FOR TOO	
	(i) SEQUENCE THARACTERISTICS: (A) LENGTH: 50 amino acids	
25	(B) TYPE: amino acid	
	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 490:	
	and the state of t	
30	Pro Gln Leu Pro Ser Cys Gly Arg Pro Trp Pro Gly Thr Ala Ser Val	
50	1 5	
	Phe Gin Ser His Thr Gin Gly Pro Arg Glu Asp Pro Asp Pro Cys Arg 20 25 30	j
35	Ala Gln Gly Ser Ala Gly Thr His Cys Pro Ile Ser Leu Ser Pro Pro 35 40 45	2
10	Arg 3ln 50	
40		
	(2) INFORMATION FOR SEQ ID NO: 491:	
45	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 42 amino acido (E) TYPE: amino acid	
	(L) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 491:	
50		
	Pro Gly Ph- Arg Gly Pro Ser Gly Ser Leu Gly Cys Ser Phe Phe Pr	္
	1 5 10 15	

4.0

	(2)	INFO	PMAT	TON .	FOR	SEQ	ID I	IU: 4	94:							
5				(E	A) LE B) M O) TO	ENGTH PE: POLO	i: 8. amin DGY:	4 am: no ac line	ino a cid ear	acids		: 491	2:			
10	Glu .	Asp	Leu	Lys	Lys 5	Pro	Asp	Pro	Ala	Ser 10	Leu	Arg	Ala	Ala	Ser 15	Cys
15	Gly	Glu	Gly	Lys 20	Lys	Arg	Lys	Ala	Cys 25	Lys	Asn	Cys	Thr	Cys 30	Gly	Leu
10	Ala	Glu	Glu 35	Leu	Glu	Lys	Glu	Lys 40	Ser	Arg	Glu	Gln	Met 45	Ser	Ser	Gln
20	Pro	Lys 50	Ser	Ala	Суз	Gly	Asn 55	Суѕ	Tyr	Leu	Gly	Asp 60	Ala	Phe	Arg	Cys
	Ala 65	Ser	Cys	Pro	Tyr	Leu 70	Gly	Met	Pro	Ala	Phe 75	Lys	Pro	Gly	Glu	Lys 80
25	Val	Leu	Leu	Ser												
30	(2)	INF		TION SEÇU						i:						
35			(xi)	(B) T	YPE :	am: LOGY	90 an ino a : lir :PTIC	acid near): 49	93:			
40	Glu 1	Asp	Leu	ı Lys	Lys 5	Pro	Asp	Pro	Ala	Ser 10		. Arg	Ala	Ala	Ser 15	
, 0	Gly	Glu	Gly	/ Lys 20		Arg	Lys	s Ala	Cys 25		: Asn	Cys	Thr	Cys 30		Leu
45	Ala	Glu	Glu 35	ı Leu	Glu	Lys	Glu	ı Lys 40		Arg	g Glu	Glr	n Met 45		: Ser	Gln
	Pro	Lys 50		c Ala	Cys	: Gl3	/ Asr 55		Tyr	c Lev	ı Gly	Asp 60		Phe	e Arg	Cys
50	Ala 65	Ser	Cy:	s Pro	Tyr	Lev 70		y Met	: Pro	o Ala	a Phe 75		s Pro	Gly	/ Glu	Lys 80
55	Val	Lev	ı Le	u Ser	28 89		r Ası	n Lei	ı His	s Asr 90						
	(2)	IN	FORM	1CITA	V FO	R SE	Q ID	NO:	494	:						

60 (i) SEQUENCE CHARACTERISTICS:

	(A) LENGTH: 34 amino acids (B) TYPE: amino acid (D) TOPOLOGY: linear
_	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 494:
5	Cys Gly Asn Cys Tyr Leu Gly Asp Ala Phe Arg Cys Ala Ser Cys Pro- 1 5 10 15
10	Tyr Leu Gly Met Pro Ala Phe Lys Pro Gly Glu Lys Val Leu Leu Ser 20 25 30
	App Ser
15	
	(C) INFORMATION FOR SEÇ ID NO: 495:
20	(i) SEQUENCE CHARACTERISTICS: (A) LENSTH: 25 bmino acids (B) TYPE: amino acid (D) TOPDLOCY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 495:
25	Ser Cys Gly Glu Gly Lys Lys Arg Lys Ala Cys Lys Asn Cys Thr Cys
30	Gly Leu Ala Glu Glu Leu Glu Lys Glu 25
	(2) INFORMATION FOR SEQ ID NO: 496:
35	(i) SEQUENCE CHARACTERISTICS: (A) LEMCTH: 21 amino acids (B) TYPE: amino acid (D) TOPOLOGY: linear
40	(xi) DEQUENCE RESTRIPTION: SEQ ID NO: 496: Ser Gln Pro Lys Ser Ala Cys Gly Asn Cys Tyr Leu Gly Asp Ala Phe 1 5 10 15
45	Arg ys Ala fer Cys LJ
50	(2) INFORMATION FOR SEQ ID NO: 497: (i) SEQUENCE CHARACTERISTICS: (A) LEMSTH: 17 amino acids (b) motor prices (c) !

60 A.p

Note that we have the same

5	(2) INFORMATION FOR SEQ ID NO: 498:
10	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 90 amino acids (B) TYPE: amino acid (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 498:
15	Glu Ser Ser Gly Gln Ala Arg Thr Leu Ala Asp Pro Gly Pro Gly Trp 1 5 10 15
15	Pro Arg Gln Gln Gly Met Cys Phe Gly Ser Leu Thr Gly Leu Ser Thr 20 25 30
20	Thr Pro His Gly Phe Leu Thr Val Ser Ala Glu Ala Asp Pro Arg Leu 35 40 45
	Ile Glu Ser Leu Ser Gln Met Leu Ser Met Gly Phe Ser Asp Glu Gly 50 55 60
25	Gly Trp Leu Thr Arg Leu Leu Gln Thr Lys Asn Tyr Asp Ile Gly Ala 65 70 75 80
30	Ala Leu Asp Thr Ile Gln Tyr Ser Lys His 85 90
	(2) INFORMATION FCE SEQ ID NO: 499:
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 159 amino acids (B) TYPE: amino acid (C) TOPOLOGY: linear
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 499: Gln Glu Gly Ser Glu Pro Val Leu Leu Glu Gly Glu Cys Leu Val Val
	1 5 10 15
45	Cys Glu Pro Gly Arg Ala Ala Ala Gly Gly Pro Gly Gly Ala Ala Leu 20 25 30
	Gly Glu Ala Pro Pro Gly Arg Val Ala Phe Xaa Ala Val Arg Ser His 35 40 45
50	His His Glu Pro Ala Gly Glu Thr Gly Asn Gly Thr Ser Gly Ala Ile 50 55 60
55	Tyr Phe Asp Gln Val Leu Val Asn Glu Gly Gly Phe Asp Arg Ala 65 70 75 80
55	Ser Gly Ser Phe Val Ala Pro Val Arg Gly Val Tyr Ser Phe Arg Phe 85 90 95
60	His Val Val Lys Val Tyr Asn Arg Gln Thr Val Gln Val Ser Leu Met 100 105 110

esta A

	Leu Aun Thr Trp Pro Val Ile Ser Ala Phe Ala Ann Asp Pro Asp Val 115 120 125
5	Thr Arg Glu Ala Ala Thr Ser Ser Val Leu Leu Pro Leu Asp Pro Gly 130 135 140
10	App Ard Val Ser Leu Ard Leu Ard Ard Sly Xaa Ser Thr Gly Trp 145 150 155
	(D) INFOFMATION FOR SEQ ID NO: 500:
15	(1) DEVUENCE CHARACTERISTICS: (A) LENGTH: 32 amino acids (B) TYPE: amino acid (C) TOPOLOGY: linear
20	(x1) SEQUENCE BESCRIPTION: SEQ ID NO. 500:
20	Pr. Ard Ser Arg Pro Ala Leu Arg Pro Gly Arg Glm Arg Pro Pro Ser 1 5 15
25	His Ser Ala Thr Ser Gly Val Leu Arg Pro Arg Lys Lys Pro Asp Pro 20 25 30
30	
	(2) INFORMATION FOR SEQ ID NO: 501:
35	1) FE_UERICE CHARACTERISTICS: (A) LENGTH: 31 amino acids (B) TYPE: amino acid (D) TOPOLOGY: linear (xi) SEQUERICE DESCRIPTION: SEQ ID NO: 501:
40	Met Thr Leu Ile Thr Pro Ser Xaa Lys Leu Thr Phe Xaa Lys Gly Asn 1 10 15
45	Lys Ser Trp Jer Ard Ala Cys Ser Ser Thr Leu Val Asp Pro 30 - 35 - 30
	(2) INFORMATION FOR SEQ ID NO: 502:
50	(i) CEQUENCE CHARACTERISTICS: (A) LENGTH: 51 amino acids (B) TYPE: amino acid
60	Let be cope Add only the Ero Tyr Sily Siu Ala His the Thr Art Ty:

	Cys Lys Lys Fro Leu Thr Asn Ser His Leu Glu Thr Glu Ala Gln Ser 35 40 45	
5	Ser Ser Leu 50	
10	(2) INFORMATION FOR SEQ ID NO: 503:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 263 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(X1) SEQUENCE DESCRIPTION: SEQ ID NO: 503:	
20	GCTTCGTGTC CAACCCTCTT GCCCTTCGCC TGTGTGCCTG GAGCCAGTCC CACCACGCTC	60
	GOSTTTOCTO CTGTAGTSCT CACAGGTCCC AGCACCGATG GCATTCCCTT TGCCCTGAGT	120
25	CTBCASCBGG TOCTTTTIGT GCTTCCTTTCC CCTCAGGTAG CCTCTCTCCC CCTGGGCCAC	130
25	TOCOGGGGOT GAGUNGOTTA COCCTTOCCA GTGTTTTTA TTCCTGTGGG GCTCACCCA	240
	AAGTATTAAA AGTAGCTTTG TAA	263
30		
	(2) INFORMATION FOR SEQ ID NO: 504:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 263 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 504:	
	GCTTCGTGTC CAACCCTCTT GCCCTTCGCC TGTGTGCCTG GAGCCAGTCC CACCACGCTC	60
45	GCGTTTCCTC CTGTAGTGCT CACAGETCCC AGEACCGATG GCATTCCCTT TGCCCTGAGT	120
	CIGCAGCGGG TCCUTYTTGT GCTTCCTTCC CCTCAGGTAG CCTCTCTCCC CCTGGGCCAC	180
50	TCCCGGGGGT GARGGGTTA CCCCTTCCCA GTSTTTTTTA TTCCTGTGGG GCTCACCCCA	240
50	AAGTATTAAA AGTAGCTTTG TAA	263
55		
_	(2) INFORMATION FOR SEQ ID NO: 505:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 263 base pairs	
60	(A) TYPE: nucleic acid	

	(C) STRANDEDNESS: double	
	(D) TOFOLOGY: linear	
5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 505:	
-/	GCTTCGTGTC CAACCCTCTT GCCCTTCGTC TGTGTGCCTG GAGCCAGTCC CACCACGCTC	50
	GCCTTTCCTC UTGTAGTGCT CACAGGTTCC AGCACCGATG GCATTUCCTT TGCCCTGAGT	120
10	CTOCAGCOR TOCCTMITGT GOTTCCTTEC CCTCAGGTAG CCTCTCTCCC CCTGGGCCAC	130
	TCCCOGGGGT GAGGGGGTTA CCCCTTCCCA GTGTTTTTTA TTCCTGTGGG GCTCACCCCA	240
15	ANSTINTTAAN AGTAGCTITG TAA	263
1.2		
20	(2) INFORMATION FOR SEQ ID NO: 506:	
	(i) DEQUENCE CHARACTERISTICS: (A) LENGTH: 160 base pairs (B) TYPE, nucleic acid	
25	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(X1) SEQUENCE DESCRIPTION: SEQ ID NO: 506:	
20	TOGETCACTS TOTTACANTE ACTOCTGTGG AATCATGATA CCACTTTTAG CTCTTTGCAT	60
30	CTTCCTTCAG TUTATTTTTG TTTTTCAAGA GGAAGTAGAT TTTAACTGGA CAACTTKAG	120
	TACTGACATC ATTGATAAAT AAACTGGCTT GTGGTTTCAA	160
35		
	(1) INFOFMATION FOR SEQ ID NO: 507:	
40	(i) CEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 292 amino acids (B) TYPE: amino acid (C) TOPOLOGY: linear	
15	xi) SEQUENCE PRECRIPTION: SEQ ID NO: 507:	
45	Deu Amp Glu beu Mot Ala His Leu Thr Glu Met Gln Ala bys Val Ala 1 5 10 15	
50	Val Arg Ala Asp Ala Gly Lys Lys His Leu Pro Asp Lys Gln Asp His 20 25 30	
	Iwa Ali Ser Leu Asp Ser Met Leu Gly Sly Leu Glu Glu Glu Leu Glo	
· ()	iyo ir The Ala Sig iyo Va. Ilo His Ala Isti siy Tobes Isi Hos Ab	

	Pro	Glu:	His	Phe	Val 85	Cys	Thr	His	Суз	Lys 90	Glu	Glu	Ile	Gly	Ser 95	Ser		
5	Pro	Phe	Phe	Glu 100	Arg	Ser	Gly	Leu	Xaa 105	Тут	Cys	Pro	Asn	Asp 110	Tyr	His		
	Gln	Leu	Phe 115	Ser	Pro	Arg	Cys	Ala 120	Tyr	Cys	Ala	Ala	Pro 125	Ile	Leu	Asp		
10	Lys	Val 130	Leu	Thr	Ala	Met	Asn 135	Gln	Thr	Trp	His	Pro 140	Glu	His	Phe	Phe		
15	Cys 145	Ser	His	Cys	Gly	Glu 150	Val	Phe	Gly	Ala	Glu 155	Gly	Phe	His	Glu	Lys 160		
•	Yeb	Lys	Lys	Pro	Tyr 165		Arg	Lys	Asp	Phe 170	Leu	Ala	Met	Phe	Ser 175	Pro		
20	Lys	Cys	Gly	Gly 180		Asn	Arg	Pro	Val 185	Lėu	Glu	Asn	Tyr	Leu 190	Ser	Ala		
	M⊖tj	A∘b	Thr 195		Trp	His	Pro	Glu 200		Phe	Val	Cys	Gly 205	Asp	Cys	Phe		
25	Thr	Ser 210		Ser	Thr	Gly	Ser 215		Phe	Glu	Leu	Asp 220		Arg	Pro	Phe		
30	Cys 225		. Leu	His	Tyr	His 230		Arg	Arg	Gly	7hr 235	Leu S	Cys	: His	; Gly	Cys 240		
					245	5				250)				255			
35	His	Pro	o Glu	. His 260		e Val	L Cys	: Ala	a Fhe 265		s Let	ı Thi	: Glr	1 Leu 270	ı Ser	. Lys		
	Gly	116	e Phe 279		g Gli	ı Glr	n Ası	280		Thi	r Tyn	r Cys	3 Glr 289	n Pro	o Cy:	s Phe		
40	Asr	1 Lys 290		u Phe	9													
45	(2)	IN	FORM	atio	n fo	R SE	Q ID	NO:	508	:								
50				SEQ .) SE	(A) (B) (D)	LENC TYPE TOPO	TH: : an DLOGY	43	mino acid near	aci l		IO: 5	08:					
. -		s Al 1	a Se	r Le	u As	p Se 5	r Me	t Le	u Gl		y L∈ 0	eu Gl	u Gl	n Gl	u Le 1	u Gln 5		
55	As	p Le	u Gl		e Al	a Th	ır Va	l Pr		s Gl 5	у Ні	s Cy	s Al		10 iz <i>C</i> ?	s Gln	-	-
60	Ьy	s Fr		.e Al	a Gl	у Гу	rs Va		e Hi 10	s Al	a Le	eu						

5	(2) INFORMATION FOR SEQ ID NO: 509:
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 amino acido (B) TYPE: amino acid
10	(D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 509:
	Cys Pro Asn Asp Tyr His Glm Leu Phe Ser Pro Ari Cys Ala Tyr Cys 1 5 10 15
15	Ala Ala Pro Ile Leu Asp Lys Val Leu Thr Ala Met Ash Gln Thr Trp 20 25 30
20	His Pro Glu His Phe Phe Cys Ser His Cys Gly Glu Val Phe Gly Ala
_(/	Glu Gly 50
25	(2) INFORMATION FOR SEQ ID NO: 510:
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 67 amino acids (B) TYPE: amino acid (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 510:
35	Asp Lys Lys Pro Tyr Cys Arg Lys Asp Phe Leu Ala Met Phe Ser Pro 1 5 10 15
	Lys Cys Gly Gly Cys Asn Arg Pro Val Leu Glu Asn Tyr Leu Ser Ala 20 25 30
40	Met Asp Thr Val Trp His Pro Glu Cys Phe Val Cys Gly Asp Cys Phe 35 40 45
45	This Ser Phe Ser This Gly Ser Phe Phe Glu Leu Asp Gly And Pro Phe 50 55 60
- + _)	Cyp Gin Du 65
50	(2) INFORMATION FOR SEQ ID MO: 521:
60	eys oly om the The Bly Art Tys The Der Ala Med Bly Tyr Lys

	Phe	His	Pro	Glu 20	His	Phe '	Val ∘	Cys .	Ala 25	Phe	Суз	Leu	Thr	Gln 30	Leu	Ser	
5	Lys	Gly	Ile 35	Phe	Arg	Glu (Gln .	Asn 40	Asp	Lys	Thr	Tyr	Cys 45	Gln			
10	(2)	INFO	ORMAT	nor	FOR	SEQ	ID N	o: 5	12:								
15			(i) S (xi)	() ()	A) LI B) T D) T	ENGTH YPE : OPOLO	H: 45 amir XGY:	52 ar no ac line	mino cid ear	acio		: 512	2:				
20	Met 1	Gly	Ser	Ser	Gln 5	Ser	Val	Glu	Ile	Pro 10	Gly	Gly	Gly	Thr	Glu 15	Gly	
20	Тут	His	Val	Le: 20	Arg	Val	Gln	Glu	Asn 25	Ser	Pro	Gly	His	Arg 30	Ala	Gly	
25	Leu	Glu	Pro 35	Phe	Phe	Asp	Phe	Ile 40	Val	Ser	Ile	Asn	Gly 45	Ser	Arg	Leu	
	Asn	Lys 50	Asp	Asn	Asp	Thr	Leu 55	Lys	Asp	Leu	Leu	Lys 60	Xaa	Asn	Val	Glu	
30	Lys 65		Val	Lys	Met	Leu 70	Ile	Tyr	Ser	Ser	Lys 75	Thr	Leu	Glu	Leu	Arg 80	
35	Glu	Thi	Ser	Vā l	Thr 85		Ser	Asn	Leu	Trp 90		Gly	Gln	Gly	Leu 95	Leu	
	Gly	Val	. Ser	Ile 100		Phe	Cys	Ser	Phe 105	Asp	Gly	Ala	Asn	Glu 110	Asn	Val	
40	Trp	His	Val 115		. Glu	Val	Glu	Ser 120		Ser	Pro	Ala	Ala 125		Ala	Gly	
	Leu	130		His	: Ser	Asp	Tyr 135		Ile	Gly	Ala	Asp 140		Val	Met	Asn	
45	Glu 145		c Glu	ı Asp	Leu	Phe 150		Leu	Ile	Glu	155		Glu	Ala	. Lys	Pro 160	
50					165	5				170)				175		
	Ile	e Il	e Thi	180		ı Ser	Ala	Trp	Gly 185		r Glu	ı Gly	/ Sei	190		Cys	
55	Gly	/ Il	e Gly 199		c Gly	/ Tyr	Leu	His 200		, Ile	e Pro) Thr	205		> Ph∈	e Glu	
	Glu	ı Gl [.] 21		s Lys	s Il€	e Ser	215		Gly	/ Glr	n Met	220		y Thi	e Pro	o Ile -	
60	Thi	r Pr	o Le	u Lys	s Asp	o Gly	z Ph∈	e Thi	c Glu	ı Val	l Glr	n Let	ı Se	r Se	r Val	l Asn	

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	225					230					235					240
	Pro	Pro	Ser	Leu	Ser 245	Pro	Pro	Gly	Thr	Thr 250	Gly	Ile	Glu	Gln	Ser 255	Leu
5	Thr	Glγ	Leu	Ser 260	Ile	Ser	Ser	Thr	Pro 265	Pro	Ala	Val	Ser	Ser 270	Val	Leu
10	Ser	Thr	Gly 275	Val	Pio	Thr	Val	Pro 280	Leu	Leu	Pro	Pro	Gln 285	Val	Asn	Gln
	Ser	Leu 290	Thr	Ser	Val	Pro	Pro 295	Met	Asn	Pro	Ala	Thr 300	Thr	Leu	Pro	Gly
15	Leu 305	Met	Pro	Leu	Pro	Ala 310	Gly	Leu	Pro	Asn	Leu 315	Pro	Aon	Leu	Apn	Leu 320
20	Asn	Leu	Pro	Ala	Pro 325	His	Ile	Met	Pro	Gly 330	Val	Gly	Leu	Pro	Glu 335	Leu
20	Val	Asn	Pro	Gly 340	Léu	Pro	Pro	Leu	Pro 345	Ser	Met	Pro	Pro	Arg 350	Asn	Leu
25	Pro	Gly	Ile 355	Ala	Pro	Leu	Pro	Leu 360	Pro	Ser	Glu	Phe	Leu 365	Pro	Ser	Phe
	Pro	Leu 370	Val	Pro	Glu	Ser	Ser 375	Ser	Ala	Ala	Ser	Ser 380	Gly	Glu	Leu	Leu
30	Ser 385	Ser	Leu	Pro	Pro	Thr 390	Ser	Asn	Ala	Pro	Ser 395	Asp	Pro	Ala	Thr	Thr 400
35	Thr	Ala	Lys	Ala	Asp 405	Ala	Ala	Ser	Ser	Leu 410	Thr	Vāl	Asp	Val	Thr 415	Pro
_, _,	Pro	Thr	Ala	Lys 420		Pro	Thr	Thr	Va1 425		Asp	Arg	Val	Gly 430		Ser
40	Thr	Pro	Val 435		Glu	Lys	Pro	Val 440		Ala	Ala	. Val	Asp 445	Ala	Asn	Ala
	Ser	Ğlu 450	Ser	Pro												
45																
	(2)	INF	ORMA	MOIT	FOR	SEQ	ID	NO:	51 3:							
50			(i)		(A) I (B) 7 (D) 7	LENGT PYPE POPOI	TH: : am LOGY	TERIS 109 a 100 a 1 lir	amino acid near	o ac		~ .	. 7.			

	Asp	Phe	Ile 35	Val	Ser	Il∈	Asn	Gly 40	Ser	Arg	Leu	Asn	Lys 45	Asp	Asn	Asp
5	Thr	Leu 50	Lys	Asp	Leu	Leu	Lys 55	Xaa	Asn	Val	Glu	Lys 60	Pro	Val	Lys	Met
	Leu 65	Ile	Τγτ	Ser	Ser	Lys 70	Thr	Leu	Glu	Leu	Arg 75	Glu	Thr	Ser	Val	Thr 80
10	Pro	Ser	Asn	Leu	Trp 85	Glγ	Gly	Gln	Gly	Leu 90	Leu	Gly	Val	Ser	Ile 95	Arg
15	Phe	Cys	Ser	Phe 100	Asp	Gly	Ala	Asn	Glu 105	Asn	Val	Trp	His			
	(2)	111F(ORMA!	иотл	FOR	SEQ	ID 1	10: <u>5</u>	514:							
20			(i)	(ENGT YPE :	H: 1 ami	45 a no a	mino ciđ		ds					
25	Clu			SEQ										112 -	6	
	1	ser	ASII	Ser	5	міа	Ala	Leu	Ala	10	Leu	Arg	Pro	HIS	ser 15	Asp
30				Gly 20					25					30		
	Ser	Leu	Ile 35	Glu	Thr	His	Glu	Ala 40	Lys	Pro	Leu	Lys	Leu 45	Тут	Val	Tyr
35	Aisn	Thr 50	Asp	Thr	Asp	Asr.	Эуs 55	Arg	Glu	Val	Ile	Ile 60	Thr	Pro	Asn	Ser
40	Ala 65	Trp	Gly	Gly	Glu	Gly 70	Ser	Leu	Gly	€ys	Gly 75	Ile	Gly	Tyr	Gly	Tyr 80
	Leu	His	Arg	Ile	Pro 85	Thr	Arg	Pro	Phe	Glu 90	Glu	Gly	Lys	Lys	Ile 95	Ser
45	Leu	Pro	Gly	Gln 100	Met	Ala	Gly	Thr	Pro 105	Ile	Thr	Pro	Leu	Lys 110	Asp	Gly
	Phe	Thr	Glu 115	Val	Gln	Leu	Ser	Ser 120	Val	Asn	Pro	Pro	Ser 125	Leu	Ser	Pro
50	Pro	Gly 130	Thr	Thr	Gly	Ile	Glu 135	Gln	Ser	Leu	Thr	Gly 140	Leu	Ser	Ile	Ser
55	Ser 145															
	(2)	TATE	יאשמר	וא רדים	FOR	CEC	ID.	viO - 1	=1E.							

(i) SEQUENCE CHARACTERISTICS:

PCT/US98/11422

_			(xi)	(B) T L) T	YPE: OPOL	amı OGY:	no a lin PTIC	cid ear			: 51	5 :			
5	Glu l	Ser	Asn	Ser	Pro 5	Ala	Ala	Leu	Ala	Gly 10	Leu	Arg	Pro	His	Ser 15	Asp
10	Tyr	He	Ile	Gly 20	Ala	Asp	Thr	Val	Met 25	Asn	Glu	Ser	Glu	Asp 30	Leu	Phe
	Ser	Leu	lle 35	Glu	Thr	His	Glu	Ala 40	Lys	Pro	Leu	Lys	Leu 45	Tyr	Val	Tyr
15	Aon	Thr 50	Asp	Thr	Asp	Asn	Cys 55	Arq	Glu	Val	Ile	Ile 60	Thr	Pro	Asn	Ser
20	Ala 65	Trp	Gly	Gly	Glu	Gly 70		Leu	Gly	Суз	Gly 75	Ile	Gly	Тут	Gly	Tyr 80
	Leu	His	Arg	Ile	Pro 85	Thr	Arg	Pro	Phe	Glu 90	Glu	Gly	Lys	Lys	Ile 95	Ser
25	Leu	Pro	Gly	Gln 100	Met	Ala	Gly	Thr	Pro 105	Ile	Thr	Pro	Leu	Lys 110	Asp	Gly
	Phe	Thr	Glu 115	Vål	Gln	Leu	Ser	Ser 120	Val	Asn	Pro	Pro	Ser 125	Leu	Ser	Pro
30	Pro	Gly 130		Thr	Gly	De	Glu 135	Gln	Ser	Leu	Thr	Gly 140	Leu	Ser	Ile	Ser
35	Ser 145															
40	(2)	INF						NO:								
40			(1)		(A) I (B) T	LENGT TYPE :	CH: 1 : tumi	ERIS 51 a .no a 11r	mina cid		.ds					
45				SEQ	VELIC	E DE	SCRI	PTIC	N: S							Free
	1				5			Bln		10					15	
50				20				Ile	25					30		
	31u	. Val	. Gln		. Ser	Ser	Val	Asn ;		· Pro	-Ser	Leu	Ser 45		Pro	Gly
6Ō	٠, ٣		λ.:		. **1	***	29.	1 11	1				ę·	:	. 1,	:"t -y.

	Leu	Leu	Pro	Pro	Gln 85	Val	Asn	Gln	Ser	Leu 90	Thr	Ser	Val	Pro	Pro 95	Met
5	Asn	Pro	Ala	Thr 100	Thr	Leu	Pro	Gly	Leu 105	Met	Pro	Leu	Pro	Ala 110	Gly	Leu
	Pro	Asn	Leu 115	Pro	Asn	Leu	Asn	Leu 120	Asn	Leu	Pro	Ala	Pro 125	His	Ile	Met
10	Pro	Gly 130		Gly	Leu	Pro	Glu 135	Leu	Val	Asn	Pro	Gly 140	Leu	Pro	Pro	Leu
15	Pro 145	Ser	Met	Pro	Pro	Arg 150	Asn									
	(2)	INF	OPMA'	rion	FOR	SEQ	ID I	10: !	517:							
20				(A) L B) T D) T	YPE : OPOL	H: 1 ami OGY:	09 a no a lin	mino cid ear	: -aci EQ I		. 51	7.			
25					Pro					Pro				Lêu:	Pro	Gly
30	l Ile	Ala	Pro	Leu 20		Leu	Pro	Ser	Glu 25	10 Phe	Leu	Pro	Ser	Phe 30	15 Pro	Leu
	Val	Pro	Glu 35	Ser	Ser	Ser	Ala	Ala 40	Ser	Ser	Gly	Glu	Leu 45	Leu	Ser	Ser
35	Leu	Pro 50		Thr	Ser	Asn	Ala 55	Pro	Ser	Asp	Pro	Ala 60	Thr	Thr	Thr	Ala
40	Lys 65		Asp	Ala	Ala	Ser 70		Leu	Thr	Val	Asp 75	Val	Thr	Pro	Pro	Thr 80
-10	Ala	Lys	Ala	Pro	Thr 85		Val	Glu	Asp	Arg 90		Gly	Asp	Ser	Thr 95	Pro
45	Val	Ser	Glu	Lys 100		Val	Ser	Ala	Ala 105	Val	Asp	Ala	Asn			
50	(2)	INF	ORMA	TICN	FOR	SEQ	ID	NO:	518:							
<i>5</i> 0			(i)		(A) I	CHA ENGI TYPE:	TH: 9	93 an	nino	: acid	ls					
55			(xi)			OPOI				EQ I	D NC): 51	8:			
	Ile 1		Lys	: Val	Phe		His	Thr	Ale	Gly 10		Lys	Pro	Glu	Val	Ser
60	Cys	Phe	Glu	ı Asn	ılle	Arg	Ser	Cys	Alu	Arg	Xaa	Xaa	Хаа	. Xaa	. Xaa	Xaa

				20					25					30		
		.,			,,	.,	•	w 1		2.1						
=	Xaa	Хаа	35	Xaa	Хаа	Хаа	Trp	40 40	Phe	Gly	Val	Leu	H1S	Val	Val	His
5	Ala	Ser 50	Val	Val	Thr	Ala	Тут 55	Leu	Phe	Thr	Val	Ser 60	Asn	Ala	Phe	Gln
10	Gly 65	Met	Phe	Ile	Phe	Leu 70	Phe	Leu	Cys	Val	Leu 75	Ser	Arg	Lys	Ile	Gln 80
	Glu	Glu	Tyr	Tyr	Arg 85	Leu	Phe	Lys	Asn	Val 90	Pro	Cys	Cys			
15																
	(2)	INF	ORMAT	rion	FOR	SEQ	ID 1	JO: 5	519:							
20				(A) L B) T D) T	ENGT YPE : OPOL	H: 5 ami OGY:	5 am no a lin	ino cid ear	: acıd EQ II		: 51	9 :			
25	Trp 1	Ile	Phe	Gly	Val 5	Leu	His	Val	Val	His 10	Ala	Ser	Val	Val	Thr 15	Ala
30	Tyr	Leu	Phe	Thr 20	Val	Ser	Asn	Ala	Phe 25	Gln	Gly	Met	Phe	Ile 30	P'ne	Leu
	Phe	Leu	Cys 35	Val	Leu	Ser	Arg	Lys 40	Ile	Gln	Glu	Glu	Tyr 45	Tyr	Arg	Leu
35	Phe	Lys 50	Asn	Val	Pro	Сур	Cys 55									
40	(2)	INF	DRMA'	rion	FCR	CEÇ	ID 1	10: S	520:							
			(i) .	Ţ	A) L B) T		H: 5 amī	0 am no a	ino ciá	: acid	s					
45			(xi)							EQ I	D 110	: 50	θ:			
	Ala 1	Leu	Thr	Arŋ	ile 5	FΣĐ	Pro	Gly	Aup	Trp 10	Val	:1-	Aun	Val	Thr 15	Ala
50	Val	Ser	Phe	Ala 20	Gly	Lys	Thr	Thr	Ala 25	Arg	Phe	Phe	Xaa	His 30	Ser	Ser
	Pro	Pro	Ster	Leu	019	Asp	Gln	Ala	Ara	Thr	Asp	Pro	Gly	His	Gln	Ara

	(2) INFORMATION FOR SEQ ID NO: 521:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 27 amino acids (B) TYPE: amino acid (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 521:	
10	Leu Gln Glu Val Asn Ile Thr Leu Pro Glu Asn Ser Val Trp Tyr Glu 1 5 10 15	
	Arg Tyr Lys Phe Asp Ile Pro Val Phe His Leu 20 25	
15		
	(2) INFORMATION FOR SEQ ID NO: 522:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 110 amino acids (B) TYPE: amino acid (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 522:	
25	Met Gln Gly Ser Gly Ser Gln Phe Arg Ala Cys Leu Leu Cys Leu Cys 1 5 10 15	
30	Phe Ser Cys Pro Cys Ser Pro Gly Gly Pro Arg Trp Asn Ser Arg Gln 20 25 30	
50	Gly Gly Arg Arg Phe Fro Lys Thr Cys Arg Ala Ile Ser Gln Asn Leu 35 40 45	
35	Val Phe Lys Tyr Lys Thr Phe Cys Pro Val Arg Tyr Met Gln Pro His 50 55 60	
	Arg Ser Ser Leu Cys Leu His Phe Thr Ser Tyr Val Phe Ile Leu Ser 65 70 75 80	
40	Thr Trp Gly Ser Leu Arg Thr Tyr Ser Thr Asp Leu Lys Lys Lys 85 90 95	
45	Lys Asn Ser Arg Gly Gly Pro Val Pro Ile Arg Pro Lys Ser 100 105 110	
	(2) INFORMATION FCR SEQ ID NO: 523:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 99 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
55	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 523:	
	TAGCATGTAG CCAGTCGAAT AACNTATAAG GACAAAGTGG AGTCCACGCG TGCGGCCGTC	60
60	TAGACTACTG GATTCCCCGG CTGCAGGATT CGGCACGAG	99

5	(2) INFORMATION FOR SEQ ID NO: 524:
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 amino acids (B) TYPE: amino acid (D) TOPDLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 524:
15	Met Gin Gly Ser Gly Ser Gln Phe Arg Ala Cys Leu Leu Cys Leu Cys 1 5 10 15
1	Phe Ser Cys Pro Cys Ser Pro Gly Gly Pro Arg Trp Asn Ser Arg Gln 23 25 30
20	GIV GIV Arg Arg Pho Pro Dys The Cys Arg Ala Ile Sor Gln Ash Lou 35 40 45
	Val Phe Lys SO
25	
	(2) INFORMATION FOR SEQ ID NO: 525:
30	(1) CEQUENCE CHAFACTERISTICS: (A) LENGTH: 54 amino acids (B) TYPE: amino acid (C) TOPOLOGY: linear (X1) SECUENCE DESCRIPTION: SEQ ID NO: 525.
35	Pro Val Arg Tyr Met Gln Pro His Arg Ser Ser Leu Cys Leu His Phe 1 5 10 15
40	Thr Ser Tyr Vil Ene Ile Leu Ser Thr Trp Gly Ser Leu Arg Thr Tyr 20 25 30
40	Ser Thr Amp Lew Lys Lys Lys Lys Lys Ash Ser Arg Gly Gly Pro Val
45	fro fle Arg Ers Lus Ser 50
50	(2) INFORMATION FOR SEQ ID NO: 526: (1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 38 amino acids
60)	The result of the second of the results of the second of t

				20					25					30				
5	Pro	Lys	Tyr . 35	Ala (Gly I	Leu												
	(2)	INFO	RMAT	noi	FOR	SEQ	ID N	0: 5	27:									
10		ł	(i) S	(F		MOTH (PE:	H: 16 amir	51 an no ac	mino cid	acio	is							
1.5			(xi)	SEQU	JENCE	DES	CRIE	OITS	J: SE	EQ II	OK (527	':					
15	Met 1	Pro	Arg	Lys	Thr 5	Ser	Lys	Cys	Arg	Gln 10	Leu	Leu	Cys	Ser	Gly 15	Ala		
20	Ser	Arg	Asn	Ala 20	Acp	Thr	Ala	Ala	Arg 25	Gln	Ser	Thr	Cys	Ser 30	Ser	His		
	Arg	Pro	Pro 35	Gly	Lys	Ile	Pro	Ser 40	Leu	Gly	Pro	Arg	Arg 45	Xaa	Pro	Gly		
25	Cys	Xaa 50	Ser	Val	Pro	Ser	Ser 55	Arg	Gly	Glu	Gln	Ser 60	Thr	Gly	Ser	Pro		
30	Ala 65	Ala	Pro	Arg	Сув	Gly 70	Arg	Arg	Asp	Ala	His 75	Arg	Gly	Leu	Pro	Gly 80		
30	Gly	Ala	Ala	Met	Thr 35	Pro	Gly	Asp	Thr	Trp 90	Ala	Ser	Phe	Asn	Pro 95	Arg		
35	Ala	Gly	His	Ser 100	Lys	Ser	Gln	Gly	Glu 105	Gly	Gln	Glu	Ser	Ser 110	Gly	Ala		
	Ser	Arg	Gln 115	Asp	Arg	His	Pro	Val 120	Ser	His	Trp	Val	Glu 125	Arg	Gln	Arg		
40	Glu	Ala 130		Gly	Ala	F'ro	Arg 135		Ser	Ser	Ala	Gly 140	Gly	Val	Lys	Val		
45	Ala 145		. Thr	Thr	Glu						Lys 155		Lys	Thr	Gly	Lys 160		
	Ala																	
50	(2)	INF	ORMA	MOITA	I FOR	SEÇ) ID	NO:	528:									
55					(A) I (B) 1 (D) 1	LENG TYPE TOPO!	I'H : : : am LOGY	88 ar ino a : li	mino acid near	acio		D: 52	28 :				-	
60		s Sei	c Gly	/ Ala	s Ser		j Ası	n Ala	a Asp	Thr		a Ala	a Arg	g Glr	n Ser 19	Thr		

	Cys	Ser	Ser	His 20	Arg	Pro	Pro	Gly	Lys 25	Ile	Pro	Ser	Leu	Gly 30	Pro	Arg
5	Arg	Xaa	Pro 35	Gly	Cys	Kaa	Ser	Val 40	Pro	Ser	Ser	Arg	Gly 45	Glu	Gln	Set
10	Thr	Gly 50	Ser	Pro	Ala	Ala	Pro 55	Arg	Cys	Gly	Arg	Arg 60	Asp	Ala	His	Arg
• • •	Gly 65	Leu	Pro	Gly	Gly	Ala 70	Ala	Met	Thr	Pro	Gly 75	Asp	Thr	Trp	Ala	Ser 80
15	Phe	Asn	Pro	Arg	Ala 85	Gly	His	Ser								
20	(2)	INF		SEQU)	ENCE A) L	CHA ENGT	RACT H: 5	NO: SERIS	TICS lino		S					
25			(xĭ)	(D) T	OPOL	OGY :	lir PTIO	ear	EQ I	D NO	: 52	9:			
	Gln 1	Gly	Glu	Gly	Gln 5	Glu	Ser	Ser	Gly	Ala 10	Ser	Arg	Gln	Asp	Arg 15	
30	Pro	Val	Ser	His 20	Trp	Val	Glu	Arg	Gln 25		Glu	Ala	Trp	Gly 30		Pro
35	Arg	Ser	Ser 35		Ala	Gly	Gly	Val 40		Val	Ala	Ala	Thr 45		Glu	Arq
	Glu	Pro 50		. Phe	Lys	Ile	Lys 55	Thr	Gly	Lys	Ala					
40	(2)	in.	OPMA	TION	FOR	. SEÇ	ID	NO:	530:							
45					(A) 1 (B) 1 (D) 1	LEIG LA BE LO BOI	PH: : am LCCY	reris 235 d ind d : liu :Prik	amino acid near	O . C		\: 51	30:			
50	Met 1		: Pro	Arç	Tyr		· GJZ	/ Gl}	/ Pro	Arg		Pro) Let	ı Ard	1 Ila	Pro
	Aor	ı Glr	n Ala	ı Let	ı Gly	/ Gly	/ Vai	l Pro	o Gly		: Glr	n Pro) Let	: Let		ser
60	þý. í t	- i.:		r Med	7111	11	1 1 1 1 5 1 5 1 1 1 1 1 1 1 1 1 1 1 1 1		r (1)	z Med	V.	i i		. 44.	i	~.:.

	Asn 65	Tyr	Gly	Gly	Ala	Met 70	Arg	Pro	Pro	Leu	Asn 75	Ala	Lêu	Gly	Gly	Pro 80
5	Gly	Met	Pro	Gly	Met 85	Asn	Met	Gly	Pro	Gly 90	Gly	Gly	Arg	Pro	Trp 95	Pro
	Asn	Pro	Thr	Asn 100	Ala	Asn	Ser	Ile	Pro 105	Тут	Ser	Ser	Ala	Ser 110	Pro	Gly
10	Asn	Tyr	Val 115	Gly	Pro	Pro	Gly	Gly 120	Gly	Gly	Pro	Pro	Gly 125	Thr	Pro	He
15	Met	Pro 130	Ser	Pro	Ala	Asp	Ser 135	Thr	Asn	Ser	Gly	Asp 140	Asn	Met	Tyr	Thr
13	Leu 145		Asn	Ala	Val	Pro 150	Pro	Gly	Pro	Asn	Arg 155		Asn	Phe	Pro	Met 160
20	Gly	Pro	Gly	Ser	Asp 165		Pro	Met	Gly	Gly 170	Leu	Gly	Gly	Met	Glu 175	Ser
	His	His	Met	Asn 180		Ser	Leu	Gly	Ser 185		Asp	Met	Asp	Ser 190		: Ser
25	Lys	Asr	Ser 195		Asn	Asn	Met	Ser 200		Ser	Asn	Gln	Pro 205		Thr	Pro
30	Arg	210		o Gly	· Glu	. Met	Gly 215		Asn	Ph∈	. Leu	Asn 220		Phe	: Glr	ı Ser
30	Glu 225		Tyr	: Ser	Pro	Ser 230		. Thr	. Met	Ser	Val 235					
35	(2)	1111	FORM	101 TA	1 FO	R SEÇ) ID	NO:	531:							
40					(A) (B) (D)	E CHI LENG TYPE TOPO CE DI	TH: : am LCGY	114 ino : li	amin acid near	o ac		O: 5	31:			
45		t Se l	r Pr	o Ar		r Pro	o Gly	y Gly	y Pro	o Arg	g Pro	o Pro	o Lei	u Ar	g Il	e Pro 5
	As	n Gl	n Al	a Le 2		y Gly	y Vai	l Pr	o Gl ₃		r Gli	n Pr	o Le	u Le 3		o Ser
50	Gl	у Ме		p Pr 5	o Th	r Ar	g Gli	n G1:		y Hi	s Pr	o As:	n Me 4		y Gl	y Pro
55	Ме		n Ar O	g Me	t Th	r Pr	o Pr 5		g Gl	у Ме	t Va	1 Pr 6		u Gl	y Pr	o Gln
55		n Ty 5	T Gl	y Gl	y Al	a Me 7		g Pr	o Pr	o Le		n Al 5	a Le	u Gl	y Gl	y Pro 80
60	Gl	у Ме	et Pr	o Gl		et As	n Me	t Gl	y Pr		y Gl	y Gl	y Ar	g Pr		p Pro

	ash Pro the Ash Ala Ash Ser The Pro Typ Ser Ser And Ser Pro Sty 100 105 110
5	Asn Tyr
10	(2) INFORMATION FOR SEQ ID NO: 532:
15	(i) SEQUENCE CHAPACTERISTICS: (A) LENGTH: 81 amino acids (B) TYPE: amino acid (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 532:
20	Leu Asn Ala Leu Gly Gly Pro Gly Met Pro Gly Met Asn Met Gly Pro-
20	Gly Gly Gly Arg Pro Trp Pro Asn Pro Thr Asn Ala Asn Ser Ile Pro 25 30
25	Tyr Ser Ser Ala Ser Pro Gly Asn Tyr Val Gly Pro Pro Gly Gly Giy 35 40 45
	Gly Pro Pro Gly Thr Pro Ile Met Pro Ser Pro Ala Asp Ser Thr Asn 50 55 60
30	Ser Gly Asp Ash Met Tyr Thr Leu Met Ash Ala Val Pro Pro Gly Pro 65 70 75 80
35	Asn
	(2) INFORMATION FOR SEQ ID NO: 533:
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 70 amino acids (B) TYPE: amino acid (D) TOPOLOGY: linear (XI) SEQUENCE DESCRIPTION: SEQ ID NO: 533:
45	Gly fro Mot Gly Gly Leu Gly Gly Met Glu Sor His His Met Ach Gly
	1 5 10 15
50	Ser Leu Gly Ser Gly Asp Met Asp Ser Ile Ser Lys Asn Ser Fro Asn 20 25 30
	Ash Met Ser Leu Ser Ash Gln Pro Gly Thr Pro Ard Asp Asp Gly Glu : 1"
60	Joseph Mar West Mary Joseph Wall 85

	(2) INFORMATION FOR SEQ ID NO: 534:
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 amino acids (B) TYPE: amino acid
10	(D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 534:
	Thr Cys Glu His Ser Ser Glu Ala Lys Ala Phe His Asp Tyr 1 5 10
15	(2) INFORMATION FOR SEQ ID NO: 535:
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 amino acids (B) TYPE: amino acid (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 535:
25	Glm Ala Phe Val Leu Leu Ser Asp Leu Leu Leu Ile Phe Ser Pro Glm 1 5 10 15
	Met Ile Val Gly Gly Arg Asp Phe Leu Arg Pro Leu Val Phe Pro 20 25 30
30	Glu Ala Thr Leu Gln Ser Glu Leu Ala Ser Phe Leu Met Asp His Val 35 40 45
35	Phe Ile Gln Pro Gly Asp Leu Gly Ser Gly Ala 50 55
	(2) INFORMATION FOR SEQ ID NO: 536:
40	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 43 amino acids(B) TYPE: amino acid(D) TOPOLOGY: linear
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 536:
,,,	Ala Cys Ser Tyr Leu Leu Cys Asn Pro Glu Phe Thr Phe Phe Ser Arg 1 5 10 15
50	Ala Asp Phe Ala Arg Ser Gln Leu Val Asp Leu Leu Thr Asp Arg Phe 20 25 30
	Gln Gln Glu Leu Glu Leu Gln Val Gly 35 40
55	
	(2) INFORMATION FOR SEQ ID NO: 537:
60	(i) SEQUENCE CHARACTERISTICS: (A) LFNGTH: 35 amino acids

	(B) TYPE: amino acid (D) TOPCLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 537:
5	Gln Lys Gln Leu Ser Ser Leu Arg Asp Arg Met Val Ala Phe Cys Glu i 5 10 15
10	Leu Cys Gln Ser Cys Leu Ser Asp Val Asp Thr Glu Ile Gln Glu Gln 20 25 30
	Val Ser Thr 35
15	(2) INFORMATION FOR SEQ ID NO: 538:
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 27 amino acids (B) TYPE: amino acid (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 538:
25	Gln Val Ile Leu Pro Ala Leu Thr Leu Val Tyr Phe Ser Ile Leu Trp 1 5 10 15
	Thr Leu Thr His Ile Ser Lys Ser Asp Ala Ser 20 25
30	
	(2) INFORMATION FOR SEQ ID NO: 539:
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 31 amino acids (B) TYPE: amino acid (D) TOPOLOGY: linear (xi) SEQUENCE PESCRIPTION: SEQ ID NO: 539:
40	Ser Thr His Asp Leu Thr Arg Trp Glu Leu Tyr Glu Pro Cys Cys Gln
45	Leu Leu Gln Lys Ala Val Asp Thr Gly Xaa Val Pro His Gln Val 20 25 30
5.0	(2) INFORMATION FOR SEQ ID NO: 540:
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 106 amino acids (B) TYPE: amino acid
60	Lea Pro Lea Gly Ser Ser Ar; Pro Ala Pro Ala Pro Ar; Hit Ara SA

	His	Glu	His 35	Gly	His	Gln	Ala	Arg 40	Pro	Pro	Arg	Leu	Leu 45	£ЬХ	Thr	Ser
5	Leu	Met 50	Pro	Leu	Ser	Thr	Pro 55	Ala	Ala	Ala	Gln	Leu 60	Leu	Trp	Thr	Gln
10	Leu 65	Thr	Pro	Met	Gly	Gly 70	Arg	Pro	Gly	Gly	Arg 75	His	Ser	Pro	Pro	Thr 80
	Leu	His	Thr	Gly	Pro 85	Arg	Ala	Leu	Pro	Pro 90	Gly	Pro	Pro	His	Pro 95	Ser
15	Leu	His	Val	Ala 100	Ala	Leu	Ser	Leu	Leu 105	Arg						
20	(2)				ENCE A) L	CHAI ENCT	RACTI H: 2	ERI <i>S</i>	rics mino	: aci	ds					
25			(xi)) SEQI				lin PTIO		EQ II	ОИС	: 54.	1:			
2.0	Glu 1	Gln	Val	Leu	Ala 5	Leu	Leu	Trp	Pro	Arg 10	Phe	Glu	Leu	Ile	Leu 15	Glu
30	Met	Asn	Val	Gln 20	3er	Val	Arg	Ser	Thr 25	Asp	Pro	Gln	Arg	Leu 30	Gly	Gly
35			35	Arg				-‡0					45			
		50		Val			5.5					60				
40	65			Gly		70					75					80
15				Glu	85					90					95	
45	Asn	Asn	Tyr	Asp 100	Met	Met	Leu	Gly	Val 105	Leu	Met	Glu	Arg	Ala 110	Ala	Asp
50	Asp	Ser	Lys 115	Glu	Val	Glu	Ser	Phe 120	Gln	Gln	Leu	Leu	Asn 125	Ala	Arg	Thr
	Gln	Glu 130	Phe	Ile	Glu	Glu	Leu 135	Leu	Ser	Pro	Pro	Phe 140	Gly	Gly	Leu	Val
55	Ala 145	Phe	Val	Lys	Glu	Ala 150	Glu	Ala	Leu	Ile	Glu 155	Arg	Gly	Gln	Ala	Glu 160
	Arg	Leu	Arg	Gly	Glu 165	Glu	Ala	Arg	Val	Thr 170	Gln	Leu	Ile	Arg	Gly 175	Phe
60	Clir	ca-	Ca~	T	T 1.00	co~	Car	1751	C1	cox	Low	Co~	C1-	Non-	17-7	Mot

			130					185					190		
5	Arg Ser	Phe 195	Thr .	Asn	Phe	Arq	Asn 200	Gly	Thr	Ser	Ile	Ile 205	Gln	Gly	
	(2) INF	ORMA'I	ricn	FOR	SEQ	1 DI	10: 5	42:							
10 15			(E	A) L: B) T O) T	ENGTI YPE : OPOL	H: 1 ami OGY:	10 ar no ao line	mino cid car	aci		: 54.	2:			
1.0	Ala Leu 1	Leu	Lys	Tyr 5	Arg	Pho	Phe	Tyr	Gln 10	Phe	Leu	Leu	Gly	Asn 15	Glu
20	Arg Ala	Thr	Ala 20	Lys	GĪu	Ile	Alg	Asp 25	Glu	Tyt	Val	Clu	Thr 30	Leu	Ser
	Lys Ile	Tyr 35	Leu	Ser	Tyr	Tyr	Arg 40	Ser	Tyr	Leu	Gly	Arg 45	Leu	Met	Lys
25	Val Gln 50		Glu	Glu	Val	Ala 55	Glu	Lys	Asp	Asp	Leu 60	Met	Gly	Val	Glu
30	Asp Thr 65	Ala	Lys	Lys	Gly 70	Phe	Хаа	Ser	Lys	Pro 75	Ser	Leu	Arg	Ser	Arg 80
50	Asn Thr	: Ile	Phe	Thr 85		Gly	Thr	Arg	Gly 90	Ser	Val	Ile	Ser	Pro 95	Thr
35	Glu Lei	ı Glu	Ala 100	Pro	Ile	Leu	Val	Pro 105	His	Thr	Ala	Gln	Arg 110		
40	(2) Iff														
45			((A) I (B) 1	LENG: TYPE TOPO!	IH: ' : am LOGY	97 am ino a : lir	mino acid near	acie): 5·	13:			
	Glu Gl	n Arg	g Tyr	Pro		e Glu	ı Ala	Let.	Phe		r Set	Glr.	n His	: Tyr 15	
50	Leu Le	u Ası	p Asn 20		c Cyra	s Arg	g Glu	ים מרלים ו		ı Phe	110	э Сус	5 GM 30		Phe
										•	***			147 -	33 4

. Syn Tyr Asp Ala Ile Ala Vai Phe Lon Tyn ile His Ile Val Len Arr 60 $^{\circ}$ 75 $^{\circ}$ 75 $^{\circ}$ 80

```
Phe Arg Ash Ile Ala Ala Lys Arg Asp Val Pro Ala Leu Asp Arg Tyr
                              90
5
     Trp
10
     (2) INFORMATION FOR SEO ID NO: 544:
            (i) SEQUENCE CHARACTERISTICS:
                   (A) LENGTH: 26 amino acids
                   (B) TYPE: amino acid
15
                   (D) TOPOLOGY: linear
            (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 544:
     Gly Gly Leu Asp Thr Arg Pro His Tyr Ile Thr Arg Arg Tyr Ala Glu
                                        10
20
      Phe Ser Ser Ala Leu Val Ser Ile Asn Gln
                 20
25
      (2) INFORMATION FOR SEQ ID NO: 545:
            (i) SEQUENCE CHARACTERISTICS:
                   (A) LENGTH: 20 amino acids
30
                    (B) TYPE: amino acid
                   (D) TOPOLOGY: linear
            (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 545:
      Ser Arg Lys Glu Gln Leu Val Phe Leu Ile Asn Asn Tyr Asp Met Met
35
                                       10
      Leu Gly Val Leu
40
      (2) INFORMATION FOR SEQ ID NO: 546:
             (i) SEQUENCE CHARACTERISTICS:
45
                   (A) LENGTH: 411 amino acids
                    (B) TYPE: amino acid
                   (D) TOPOLOGY: linear
             (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 546:
50
      Ala Leu Leu Lys Tyr Arg Phe Phe Tyr Gln Phe Leu Leu Gly Asn Glu
      Arg Ala Thr Ala Lys Glu Ile Arg Asp Glu Tyr Val Glu Thr Leu Ser
55
      Lys Ile Tyr Leu Ser Tyr Tyr Arg Ser Tyr Leu Gly Arg Leu Met Lys
              35 40 45
      Val Gln Tyr Glu Glu Val Ala Glu Lys Asp Asp Leu Met Gly Val Glu
60
```

	App 65	Thr	Ala	Lys	Lys	Gly 76	Phe	Хаа	Ser	Lys	Pro	Ser	Le i	Arg	Se⊻	A#7 80
5	Asn	Thr	Ile	The	Thr 85	Leu	Gly	Thr	Arg	Gly 90	Ser	Val	11-5	Ser	923 97	īni
10	Glu	Leu	Glu	Ala 100	Pro	Ile	Leu	Val	Pro 105	ніз	75.	Ala	Gin	:=g 110	Иза	314
10	Oln	Arg	Тут 115	Pro	Phe	Glu	Ala	Leu 120	Phe	Fri	Ser	Sin	His 125	;· r	Жаа	Deta
15	Leu	App 130		Ser	Cys	Azg	Glu 135	Tyr	Leu	Phe	ile	0ys 140	GI.	Bae	Pse	Val
	Val 145	Ser	Gly	Pro	Хаа	Ala 150	His	Asp	Leu	Phe	His 155	Ala	Vil	Met	GLY	Arg 160
20	Thr	Lea	Sei	Met	Thi 165	Leti	Lys	Hīs	Leu	Asp 170	Ser	7/2	Let.	Ala	Asp 175	Cys
25	Tyr	Asp	Ala	11e 180		Val	Phe	Leu	Cys 185	Ile	His	I.5	Val	1eu 190	Жą	Phe
23	Arg	Asn	11e 195		Ala	Lys	Arg	Asp 200		Pro	Als	leu	AEC 208	;ing	777	TTT
3()	Glu	Gln 210		1.20	Ala	Leu	Leu 215		Pro	àr j	Pha	91a 223	L⊕'.	Sle	i.eu	914
	Met 225		ı Val	Gln	. Ser	Val 230		Ser	Thr	ds¥.	Pro 235	3ln	Azş	Dæu	Cly	Gly 240
35	Leu	Asp	rhr	· Arg	Pro 245		Tyr	· Ila	Thr	Arş 250	Αrş	Tyr	A _ 6	Blu	₽#.⊕ 28.5	Ser
40	Ser	- Alo	a Let	ı Val 260		· Ile	AST	ı Glr	7hz 265	: 11=	Pro	Aun	: G1 -	≟≃ g 1,70	1.52	: Met
	43 lm	Le:	i Let Dis		: Glr	ı Let	: Gl:	1 Val 290		ı Val	gl::	Эшт	Phe 285	: Val	160	- Azg
45	Val	1 Al. 29		a Glo	: Pite	e Cei	2.49	r Arj	j Ly:	a alu	. 3lr	. Lav 300	: Val	. Inte	e lo	i lle
	Ası 309		n Tys	r Asj	o Met	: Met		ı Gly	y Va	l Leu	: Met 315		ı Arş	: Ala	i Ali	a Asp 321
50					321	5				n Glr 330)				331	ē
			٠.		•	1	•			VI 1944	TH	=;		·.		+ f.*s
60	At	ા Le		a .41	7 · ·	: 4,.	n Al		1 V 1	l In:	s 31:	1 12	i i	٠٠٠	‡	7 P.O

	Gly 385	Ser	Ser	ľrp	Lys	Ser 390	Ser	Val	Glu	Ser	Leu 395	Ser	Gln	Asp	Val	Met 400
5	Arg	Ser	Phe	Thr	Asn 405	Phe	Arg	Asn	Gly	Thr 410	Ser					
10	(2)	INF	OR MA '	noin	FOR	SEQ	ID 1	MO: 5	547:							
15				(A) L B) T D) T	ENGT YPE : CPCL	H: 3 ami OGY:	03 a no a lin	mino cid ear	aci		: 54	7:			
20	Тут 1	Glu	Gly	Lys	Glu 5	Phe	Asp	Tyr	Val	Phe 10	Ser	Ile	Asp	Val	Asn 15	Glu
	Gly	Gly	Pro	Ser 20	Тут	Lys	Leu	fro	Tyr 25	Asn	Thir	Ser	Asp	Asp 30	Pro	Trp
25	Leu	Thr	Ala 35	Tyr	Asn	Phe	Leu	Gln 40	Lys	Asn	Asp	Leu	Asn 45	Pro	Met	Phe
	Leu	Asp 50	Gln	Val	Ala	Lys	Phe 55	Ile	Ile	Asp	Asn	Thr 60	Lys	Gly	Glm	Met
30	Leu 65	Gly	Leu	Cly	Asn	Pro 70	Ser	Phe	Ser	qzA	Pro 75	Phe	Thr	Gly	Gly	Gly 80
35	Arg	Tyr	Val	Pro	Gly 85	Ser	Ser	Gly	Ser	Ser 90	As n	Thr	Leu	Pro	Thr 95	Ala
	Asp	Pro	Phe	Thr 100	Gly	Ala	Gly	Arg	Tyr 105	Val	Pro	Gly	Ser	Ala 110	Ser	Met
40	Gly	Thr	Thr 115	Met	Ala	Gly	Val	Asp 120	Pro	Phe	Thr	Gly	Asn 125	Ser	Ala	Tyr
	Arg	Ser 130	Ala	Ala	Ser	Lys	Thr 135	Met	Asn	Ile	Τγτ	Phe 140	Pro	Lys	Lys	Glu
45	Ala 145	Val	Thr	Phe	Asp	Gln 150	Ala	Asn	Pro	Thr	Gln 155	Ile	Leu	Gly	Lys	Leu 160
50	Lys	Glu	Leu	Asn	Gly 165	Thr	Ala	Pro	Glu	Glu 170	Lys	Lys	Leu	Thr	Glu 175	Asp
	Asp	Leu	Ile	Leu 180	Leu	Glu	Lys	Ile	Leu 185	Ser	Leu	Ile	Cys	Asn 190	Ser	Ser
55	Ser	Glu	Lys 195	Pro	Thr	Val	Gln	Gln 200	Leu	Gln	Ile	Leu	Trp 205	Lys	Ala	Ile
	Asn	Cys 210	Pro	Glu	Asp	Ile	Val 215	Phe	Pro	Ala	Leu	Asp 220	Ile	Leu	Arg	Leu · · -
60	Ser	Ile	Lys	His	Pro	Ser	Val	Asn	Glu	Asn	Þhe	Cys	Asn	Glu	Lys	Glu

	225					230					235					240
	Gly	Ala	Gln	Phe	Ser 245	Ser	Н13	Leu	Ile	Asn 250	Leu	Leu	Apn	Pro	Lys 255	Gly
5	Lys	Pro	Ala	Asn 260	Gln	Leu	Lēu	Ala	Leu 265	Arg	Thr	Phe	Cys	Aon 270	Cys	Phe
10	Val	Gly	Gln 275	Ala	Gly	Gln	Lys	Leu 280	Met	Met	Ser	Gln	Arg 285	Glu	Ser	Leu
	Mart	Se: 200	His	Ala	Ile	Glu	Leu 295	Lys	Ser	Gly	ser	Asn 300	Lys	Asn	Il.	
15																
20	(11)			៊ីមូហ្វីព	FAR FINE (A) L	CHA	RACT	ERIS	TICS		s					
			(×1)	(D) I D) I	OPOL	OGY :	lin	ear	EQ I	D NO	: 54	8:			
25	His 1	Ile	Ala	Leu	λla ς	Thr	Leu	Ala	Leu	Asn 10	Tyr	Ser	Val	Cys	Phe 15	His
30	Lys	Asp														
	(2)	IIF	UF MA	TICN	FOR	SEQ	ID	110 :	549:							
35			(1)		JENCF (A) I (B) C	JENGI Type :	H: 4	19 an ino s	mino acid		l s					
40				SD.	OLLAN	E DE	SCRI	PTIC	M: S							
	His		i Ile	. 9, 3 1 1	: Gly 5		Ala	Gln	. Суз	Leu 10		Leu	ı Ile	Ser	Thr 15	ile
45	L.Cr.i	ol:	i Val	. Val		. Asp	Leu	Glu	: Ala OS	Thr	Phe	- Arc	j I.ēn.	i Leti 30	. Val	. Ala
	Leu	Gly	r Thr 35		: lle	· Ser	Asp	Asp 40		- Asr	n Ala	i Val	. Glr 45		ı Alé	a Lys
50	Ser															
						DPI WA	* 1H		mii.	1 - 1	1.					
60					6157 6151		i ain Leviy									

		1	(xi)	SEÇ	UENCI	E DES	SCRI	PTION	∜: SI	EQ II	011.0	: 550) :			
5	Leu 1	Gly	Val	Asp	Ser 5	Gln	Ile	Lys	Lys	Tyr 10	Ser	Ser	Val	Ser	Glu 15	Pro
.,	Ala	Lys	Val	Ser 20	Glu	Cys	Cys	Arg	Phe 25	Ile	Leu	Asn	Leu	Leu 30		
10																
	(2)				FOR	_										
15			(1) :	(ENCE A) L B) T D) T	ENGT: YPE :	H: 4 ami	00 a no a	mino cid		ds					
			(xi)		UENCI					EQ II	ОИС	: 55	1:			
20	Tyr 1	Glu	Gly	Lys	Glu 5	Phe	Asp	Tyr	Val	Phe 10	Ser	Ile	Asp	Val	Asn 15	Glu
	Gly	Glγ	Pro	Ser 20	JAT	Lys	Leu	Pro	Tyr 25	Azn	Thr	Ser	Asp	Asp 30	Pro	Trp
25	Leu	Thr	Ala 35	Tyr	Asn	Phe	Leu	Gln 40	Lys	Asn	Asp	Leu	Asn 45	Pro	Met	Phe
30	Leu	Asp 50	Gln	Val	Ala	Lys	Phe 55	Ile	Ile	Asp	Asn	Thr 60	Lys	Gly	Gln	Met
50	Leu 65	Gly	Leu	Gly	Asn	Pro 70	Ser	Phe	Ser	Asp	Pro 75	Phe	Thr	Gly	Gly	Gly 80
35	Arg	ïyr	Val	Pro	Gly 85	Ser	Ser	Gly	Ser	Ser 90	Asn	Thr	Leu	Pro	Thr 95	Ala
	Asp	Pro	Phe	Thr	Gly	Ala	GĴY	Arg	Tyr 105	Val	Pro	Gly	Ser	Ala 110	Ser	Met
40	Gly	Thr	Thr 115		Ala	Gly	Val	Asp 120	Pro	Phe	Thr	Gly	Asn 125	Ser	Ala	Tyr
15	Arg	Ser 130	Ala	Ala	Ser	Lys	Thr 135	Met	Asn	Ile	Туг	Phe 140	Pro	Lys	Lys	Glu
45	Ala 145	Val	Thr	Phe	Asp	Gln 150		Asn	Pro	Thr	Gln 155		Leu	Gly	Lys	Leu 160
50	Lys	Glu	Leu	Asn	31y 165		Ala	Pro	Glu	Glu 170	Lys	Lys	Leu	Thr	Glu 175	Asp
	Asp	Leu	Ile	Leu 180	Leu	Glu	Lys	Ile	Leu 185		Leu	Ile	Cys	Asn 190		Ser
55	Ser	Glu	Lys 195		Thr	Val	Gln	Gln 200		Gln	Ile	Leu	Trp 205		Ala	Ile
	Asn	Cys 210		Glu	ı Asp	Ile	Val 215		Pro	Ala	Leu	Asp 220		Leu	Arg	Leu
60																

	Ser 225	Ile	Lys	His	Pro	ier 130	Val	Asn	Glu	Aan	Phe 235	Cys	Asn	Glu	Lys	Glu 240
5	Gly	Ala	Gln	Phe	Ser 245	Ser	His	Leu	Ile	Aan 250	Leu	I.e∖ı	Asn	Pro	Lys 255	Gly
	Lys	Pro	Ala	Asn 260	Gln	Leu	Leu	Ala	Leu 265	Arq	Thr	Phe	Cys	Asn 270	Cys	Phe
10	Val	Gly	Gln 275	Ala	Gly	Gln	Lys	Leu 280	Met	Met	Ser	Gln	Arg 285	Glu	Ser	Leu
15	Met.	Ser 190	His	Ala	Ile	Glu	Leu 295	Lys	Ser	Gly	Ser	Asn 300	Lys	Asn	Il∙∙	His
	11 <i>∈</i> 305	Ala	Leu	Ala	Thr	Leu 510	Ala	Leu	Asn	Tyr	Ser 315	Val	Cys	Phe	His	Lys 320
20	Asp	His	Asn	Ile	Glu 325	Gly	Lys	Ala	Gln	Cys 330	Leu	Ser	Leu	Ile	Ser 335	Thr
	Ile	Leu	Ğlu	Val 340	Val	Gln	Asp	Leu	Glu 345	Ala	Thr	Phe	Arg	Leu 350	Leu	Val
25	Ala	Leu	Gly 355	Thr	Leu	Ile	Ser	Asp 360	Asp	Ser	Asn	Ala	Val 365	Gln	Leu	Ala
30	Lys	Ser 370	Leu	Gly	Val	Asp	Ser 375	Gln	Ile	Lys	Lys	Tyr 380	Ser	Ser	Val	Ser
	Glu 385	Pro	Ala	Lys	Val	Ser 390	Glu	Cys	Cys	Arg	Phe 395	Ile	Leu	Asn	Leu	Let 400
35																
	(2)	INF	orma'	TIÓN	FOR	SEQ	ID	NO:	552:							
40			(i)	-	ENCE					: naci	.ds					
45			(x i)		(B) I	TYPE:	ami LOGY	ino a : lir	acid near		D NO): 55	.2 :			
	Tyr 1					Gly					Asp			Leu	His 15	
50			Gin	. Arg 20	Leu		Lys	. Val	Val 25	Thr		. Asn	His	Arg 30	Ala	
				٠.٠					ر ب					,.,		

	Ala	Asn	Glu	Asp	Ser 85	Val	Pro	Gly	Ala	Asp 90	Asp	Phe	Val	Pro	Val 95	Leu
5	Val	Phe	Val	Leu 100	Ile	Lys	Ala	Asn	Pro 105	Pro	Cys	Leu	Leu	Ser 113	Thr	Val
10	Gln	Tyr	Ile 115	Ser	Ser	Phe	Tyr	Ala 120	Ser	Cys	Leu	Ser	Gly 125	Glu	Glu	Ser
10	Tyr	Trp 130	Trp	Met	Gln	Phe	Thr 135	Ala	Ala	Val	Glu					
15	(2)	INF	DEMA	rion	FOR	SEQ	I CI	10: 5	553 :							
20				(A) L B) T D) T	ENGT YPE : OPOL	H: 1 ami OGY:	44 a no a lin		aci		: 55.	3:			
25	Tyr 1	Pro	Asn	Gln	Asp 5	Gly	Asp	Ile	Leu	Arg 10	Asp	Gln	Val	Leu	His 15	Glu
	His	Ile	Gln	Arg 20	Leu	Ser	Lys	Val	Val 25	Thr	Ala	Asn	His	Arg 30	Ala	Leu
30	Gln	Ile	Pro 35		Val	Tyr	Leu	Arg 40	Glu	Ala	Pro	Trp	Pro 45	Ser	Ala	Gln
35	Ser	Glu 50		Æg	Thr	Ile	Ser 55	Ala	Tyr	Lys	Thr	Pro 60	Arg	Asp	Lys	Val
<i></i>	Gln 65	-	Ile	Leu	Arg	Met 70	Cys	Ser	Thr	Ile	Met 75	Asn	Leu	Leu	Ser	Leu 80
40	Ala	Asn	Glu	Asp	Ser 85	Val	Pro	Gly	Ala	Asp 90		Phe	Val	Pro	Val 95	Leu
	Val	Phe	· Val	Leu 100	Ile	Lys	Ala	Asn	Pro 105		Cys	Leu	Leu	Ser 110	Thr	Val
45	Gln	Tyr	Ile 115		Ser	Phe	Tyr	Ala 120	Ser	Cys	Leu	Ser	Gly 125		Glu	Ser
50	Tyr	Trp 130		Met	Gln	Phe	Thr 135		Ala	. Val	Glu	Phe 140		Lys	Thr	Ile
55	(2)	INF	FORMA	TION	FOR	. SEÇ) ID	NO:	554:							
60			(i)	_	(A) B	LENG	rH:	14 a	STICS mino		ds					
UU					(0)	LIPE	. am	1110	acid							

	(D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 554:
5	Tyr Pro Aon Gln Asp Gly Asp Ilê Leu Arg App Gin Val Leu 1 5 10
10	(2) INFORMATION FOR SEQ ID NC: 555:
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 11 amino acids (B) TYPE: amino acid (D) TOPOLOGY: linear
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 555: Glu Ala Pro Trp Pro Ser Ala 3ln Ser Glu Ile 1 5 10
20	(2) INFORMATION FOR SEQ ID NO: 556:
25	(1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 amino acids (B) TYPE: amino acid (D) TOPOLOGY: linear (Ri) SEQUENCE DESCRIPTION: SEQ ID NO: 556:
30	Ser Gly Glu Glu Ser Tyr Trp Trp Met Gln Phe Thr Ala Ala Val Glu
35	Phe Ile Lys Thr Ile 20
	(2) INFORMATION FOR SEQ ID NO: 557:
40 45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 amino acids (B) TYPE: amino acid (D) TOPOLOGY: linear (M) REQUENCE DESCRIPTION: SEQ ID NO: 557:
T.)	Ala Acp Acp Phe Val Pro Val Leu Val Phe Val Leu Ile Lyo Ala Acr 1 5 10 15
50	Pro Pro

TYPE: amini chi (10 TUPCLACY, linear 60 ### DEFTERME PROPRETE NE OFF ID NO 554)

```
Tyr Lys Thr Pro Arg Asp Lys Val Gln Cys Ile Leu
            5
 5
     (2) INFORMATION FOR SEQ ID NO: 559:
            +i) SEQUENCE CHARACTERISTICS:
10
                  (A) LENGTH: 15 amino acids
                   (B) TYPE: amino acid
                   (D) TOPOLOGY: linear
            xi) SEQUENCE DESCRIPTION: SEQ ID NO: 559:
15
     Gly Ala Asp Asp Phe Val Pro Val Lhu Val Phe Val Leu Ile Lys
         5
      1
                           10
20
     (2) INFORMATION FOR SEQ ID NO: 560:
            (1) SEQUENCE CHARACTERISTICS:
                  (A) LENGTH: 12 amino acids
                   (E) TYPE: amino acid
25
                   (D) TOPOLOGY: linear
            (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 560:
     Pro Val Leu Val Phe Val Leu Ile Lys Ala Asn Pro
30
     (2) INFOFMATION FOR SEQ ID NO: 561:
35
            (1) SEQUENCE CHARACTERISTICS:
                  (A) LENGTH: 17 amino acids
                   (E) TYPE: amino acid
                   (D) TOPOLOGY: linear
            (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 561:
40
     Ser Ala Arg Ala Ser Thr Gln Pro Pro Ala Gly Gln His Pro Gly Pro
      1 5 10
     Cys
45
     (2) INFORMATION FOR SEQ ID NO: 563:
50
            (i) SEQUENCE CHARACTERISTICS:
                  (A) LENGTH: 33 amino acids
                   (B) TYPE: amino acid
                  (D) TCPCLOGY: linear
55
            (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 562:
     Met Pro Gly Arg Trp Arg Trp Gln Arg Asp Met His Pro Ala Arg Lys
                                      10
60
     Leu Leu Ser Leu Leu Phe Leu Ile Leu Met Gly Thr Glu Leu Thr Gln
```

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25 20 Asp 5 (2) INFORMATION FOR SEQ ID NO: 563: (i) SEQUENCE CHARACTERISTICS: 10 (A) LENGTH: 19 amino acids (B) TYPE: amino acid (D) TOPOLOGY: linear (x1) SEQUENCE DESCRIPTION: SEQ ID NO: 563: 15 Ser Ala Ala Pro Asp Ser Leu Leu Arg Ser Ser Lys Gly Ser Thr Arj 10 Gly Ser Leu 20 (2) INFORMATION FOR SEQ ID NO: 564: 25 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 amino acids (B) TYPE: amino acid (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 564: 30 Ala Ala Ile Val Ile Trp Arg Gly Lys Ser Glu Ser Arg Ile Ala Lys 10 1 5 35 Thr Pro Gly Ile 20 40 (2) INFORMATION FOR SEQ ID NO: 565: (1) SEQUENCE CHARACTERISTICS: (A) LENGIH: 17 amino acids (B) TYPE: amino acid 45 (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 565: Pro Leu Gly Ile Thr Leu Pro Leu Gly Ala Pro Glu Thr Gly Gly Gly 1 5 10 50 Asp

60 - PRIORICE CHARA MERITTIA.

A LEMETH: 21 amino acida
contro amino acida

No. of the A.

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(D) TOPOLOGY: linear
            (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 566:
     Cys Ala Ala Glu Thr Trp Lys Gly Ser Gln Arg Ala Gly Gln Leu Cys
5
       1
     Ala Leu Leu Ala
                 20
10
     (2) INFORMATION FOR SEQ ID NO: 567:
            (i) SEQUENCE CHARACTERISTICS:
15
                   (A) LENGTH: 20 amino acids
                   (B) TYPE: amino acid
                   (D) TOPOLOGY: linear
             (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 567:
20
     Phe Arg Gly Gly Cly Thr Leu Val Leu Pro Pro Thr His Thr Pro Glu
                                        10
     Trp Leu Ile Leu
25
      (2) INFORMATION FOR SEQ ID NO: 568:
30
            (i) SEQUENCE CHARACTERISTICS:
                   (A) LENGTH: 22 amino acids
                    (B) TYPE: amino acid
                   (D) TOPOLOGY: linear
             (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 568:
35
      Met Arg Ser Ala Arg Pro Ser Leu Gly Cys Leu Pro Ser Trp Ala Phe
                                        1.0
                      5
      Ser Gln Ala Leu Asn Ile
40
                 20
      (2) INFORMATION FOR SEQ ID NO: 569:
45
             (i) SEQUENCE CHARACTERISTICS:
                   (A) LENGTH: 22 amino acids
                    (B) TYPE: amino acid
                    (D) TOPOLOGY: linear
50
             (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 569:
      Leu Leu Gly Leu Lys Gly Leu Ala Pro Ala Glu Ile Ser Ala Val Cys
                                 10
55
      Glu Lys Gly Asn Phe Asn
                  2.0
```

60 (2) INFORMATION FOR SEQ ID NO: 570:

	(i) SEQUENCE CHARACTERISTICS:
	(A) LENGTH: 26 amino acids
	(B) TYPE: amino acid
5	(D) TOPOLOGY: linear
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 570:
	and any officer and any officer three three three three three three transfers and
	Val Ala His Gly Leu Ala Trp Ser Tyr Tyr Ile Gly Tyr Leu Arg Leu 1 10 15
10	1 5 10 15
10	Ile Leu Pro Clu Leu Gln Ala Arg Ile Arg
	29 25
15	
	(2) INFORMATION FOR SEQ ID NO: 571:
	(i) SEQUENCE CHARACTERISTICS:
	(A) LENGTH: 18 amino acids
20	(B) TYPE: amino acid
	(D) TOPOLOGY: linear
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 571:
	The state of the s
25	Thr Tyr Asn Gln His Tyr Asn Asn Leu Leu Arg Gly Ala Val Ser Gln 1 5 10 15
ل ش	1 5 10 15
	Arg Cys
20	
30	
	(2) INFORMATION FOR SEQ ID NO: 572:
25	(i) SEQUENCE CHARACTERISTICS:
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 43 amino acids
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 43 amino acids (B) TYPE: amino acid
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 43 amino acids (B) TYPE: amino acid (D) TOPOLOGY: linear
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 43 amino acids (B) TYPE: amino acid (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 572:
35 40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 43 amino acids (B) TYPE: amino acid (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 572: Ile Leu Leu Pro Leu Asp Cys Gly Val Pro Asp Asn Leu Ser Met Ala
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 43 amino acids (B) TYPE: amino acid (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 572:
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 43 amino acids (B) TYPE: amino acid (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 572: Ile Leu Leu Pro Leu Asp Cys Gly Val Pro Asp Asn Leu Ser Met Ala 1 5 10 15
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 43 amino acids (B) TYPE: amino acid (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 572: Ile Leu Leu Pro Leu Asp Cys Gly Val Pro Asp Asn Leu Ser Met Ala 1 5 10 15 Asp Pro Asn Ile Arg Phe Leu Asp Lys Leu Pro Gln Gln Thr Gly Asp
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 43 amino acids (B) TYPE: amino acid (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 572: Ile Leu Leu Pro Leu Asp Cys Gly Val Pro Asp Asn Leu Ser Met Ala 1 5 10 15
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 43 amino acids (B) TYPE: amino acid (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 572: Ile Leu Leu Pro Leu Asp Cys Gly Val Pro Asp Asn Leu Ser Met Ala 1 5 10 15 Asp Pro Asn Ile Arg Phe Leu Asp Lys Leu Pro Gln Gln Thr Gly Asp 20 25 27
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 43 amino acids (B) TYPE: amino acid (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 572: Ile Leu Leu Pro Leu Asp Cys Gly Val Pro Asp Asn Leu Ser Met Ala 1 5 10 15 Asp Pro Asn Ile Arg Phe Leu Asp Lys Leu Pro Gln Gln Thr Gly Asp
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 43 amino acids (B) TYPE: amino acid (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 572: Ile Leu Leu Pro Leu Asp Cys Gly Val Pro Asp Asn Leu Ser Met Ala 1 5 10 15 Asp Pro Asn Ile Arg Phe Leu Asp Lys Leu Pro Gln Gln Thr Gly Asp 20 25 27 Arg Ala Gly Ile Lys Asp Arg Val Tyr Ser Am
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 43 amino acids (B) TYPE: amino acid (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 572: Ile Leu Leu Pro Leu Asp Cys Gly Val Pro Asp Asn Leu Ser Met Ala 1 5 10 15 Asp Pro Asn Ile Arg Phe Leu Asp Lys Leu Pro Gln Gln Thr Gly Asp 20 25 27 Arg Ala Gly Ile Lys Asp Arg Val Tyr Ser Am
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 43 amino acids (B) TYPE: amino acid (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 572: Ile Leu Leu Pro Leu Asp Cys Gly Val Pro Asp Asn Leu Ser Met Ala 1 5 10 15 Asp Pro Asn Ile Arg Phe Leu Asp Lys Leu Pro Gln Gln Thr Gly Asp 20 25 36 Arg Ala Gly Ile Lys Asp Arg Val Tyr Ser Asn 35 40
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 43 amino acids (B) TYPE: amino acid (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 572: Ile Leu Leu Pro Leu Asp Cys Gly Val Pro Asp Asn Leu Ser Met Ala 1 5 10 15 Asp Pro Asn Ile Arg Phe Leu Asp Lys Leu Pro Gln Gln Thr Gly Asp 20 25 27 Arg Ala Gly Ile Lys Asp Arg Val Tyr Ser Am
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 43 amino acids (B) TYPE: amino acid (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 572: Ile Leu Leu Pro Leu Asp Cys Gly Val Pro Asp Asn Leu Ser Met Ala 1 5 10 15 Asp Pro Asn Ile Arg Phe Leu Asp Lys Leu Pro Gln Gln Thr Gly Asp 20 25 36 Arg Ala Gly Ile Lys Asp Arg Val Tyr Ser Asn 35 40
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 43 amino acids (B) TYPE: amino acid (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 572: Ile Leu Leu Pro Leu Asp Cys Gly Val Pro Asp Asn Leu Ser Met Ala 1 5 10 15 Asp Pro Asn Ile Arg Phe Leu Asp Lys Leu Pro Gln Gln Thr Gly Asp 20 25 26 Arg Ala Gly lie Lys Asp Arg Val Tyr Ser Asn 35 40 (2) INFCRMATION FOR SEQ ID NO: 573:
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 43 amino acids (B) TYPE: amino acid (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 572: Ile Leu Leu Pro Leu Asp Cys Gly Val Pro Asp Asn Leu Ser Met Ala 1 5 10 15 Asp Pro Asn Ile Arg Phe Leu Asp Lys Leu Pro Gln Gln Thr Gly Asp 20 25 25 Arg Ala Gly Ile Lys Asp Arg Val Tyr Ser Asn 35 40 (2) INFORMATION FOR SEQ ID NO: 573:
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 43 amino acids (B) TYPE: amino acid (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 572: Ile Leu Leu Pro Leu Asp Cys Gly Val Pro Asp Asn Leu Ser Met Ala 1 5 10 15 Asp Pro Asn Ile Arg Phe Leu Asp Lys Leu Pro Gln Gln Thr Gly Asp 20 25 25 27 Arg Ala Gly lie Lys Asp Arg Val Tyr Ser Asn 35 40 (2) INFORMATION FOR SEQ ID NO: 573:
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 43 amino acids (B) TYPE: amino acid (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 572: Ile Leu Leu Pro Leu Asp Cys Gly Val Pro Asp Asn Leu Ser Met Ala 1 5 10 15 Asp Pro Asn Ile Arg Phe Leu Asp Lys Leu Pro Gln Gln Thr Gly Asp 20 25 25 Arg Ala Gly Ile Lys Asp Arg Val Tyr Ser Asn 35 40 (2) INFORMATION FOR SEQ ID NO: 573:
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 43 amino acids (B) TYPE: amino acid (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 572: Ile Leu Leu Pro Leu Asp Cys Gly Val Pro Asp Asn Leu Ser Met Ala 1 5 10 15 Asp Pro Asn Ile Arg Phe Leu Asp Lys Leu Pro Gln Gln Thr Gly Asp 20 25 25 27 Arg Ala Gly lie Lys Asp Arg Val Tyr Ser Asn 35 40 (2) INFORMATION FOR SEQ ID NO: 573:

	Leu	Glu	Tyr	Ala 20	Thr	Pro	Leu	Gln	Thr 25	Leu	Phe	Ala	Met	Ser 30	Gln	Tyr
5	Ser	Gln	Ala 35	Gly	Phe	Ser	Gly	Glu 40	qaA	Arg	Leu	Glu	Gln 45			
10	(2)	INFO	ORMAI	11011	FOR	SEQ	ID 1	VO: 5	574:							
15				(A) L B) T D) T	ENGT YPE : OPOL	H: 9 ami OGY:	ERIS 2 am no a lin PTIO	ino cid ear	acid		: 57	4:			
20	Ala 1	Lys	Leu	Phe	Cys 5	Arg	Thr	Leu	Glu	Asp 10	Ile	Leu	Ala	qaA	Ala 15	Pro
	Glu	Ser	Gln	Asn 20	Asn	Cys	Arg	Leu	Ile 25	Ala	Tyr	Gln	Glu	Pro 30	Ala	Asp
25	Asp	Ser	Ser 35	Phe	Ser	Leu	Ser	Gln 40	Glu	Val	Leu	Arg	His 45	Leu	Arg	Gln
	Glu	Glu 50	Lys	Glu	Glu	Val	Thr 55	Val	Gly	Ser	Leu	Lys 60	Thr	Ser	Ala	Val
30	Pro 65	Ser	Thr	Ser	Thr	Met 70	Ser	Gln	Glu	Pro	Glu 75	Leu	Leu	Ile	Ser	80 80
35	Met	Glu	Lys	Pro	Leu 85		Leu	Arg	Thr	Asp 90	Phe	Ser				
	(2)	INF	ORMA	TION	FOR	SEQ	άι	NO:	575 :							
40				((A) I (B) T (D) T	LENGT TYPE : TOPOI	CH: 4 : ami LOGY:	ERIS ino a lir	mino acid near	acid). 57	٠ς .			
45						Gly		PTIC Ala						Ala	. Val 15	Cys
50	1 Glu		Gly	Asn 20	. Phe		Val	. Ala	His 25	Gly	Leu	. Ala	. Trp	Ser 30	Tyr	Tyr
	Ile	Gly	Tyr 35		Arg	Leu	Ile	Leu 40		Glu	Leu					
55																
	(2)	INF	ORMA	MOIT	FOR	SEÇ) ID	NO:	576:							
60			(i)	-				reris 22 au			ds					

	(B) TYPE: amino acid (D) TYPOLOGY: linear (Mi) DEQUENCE DESCRIPTION: SEQ ID NO: 576:	
5	Thr Mot Lys Leu Leu Lys Leu Arg Arg Ann Ile Val Lys Leu Ser L 1 5 10 15	eu
10	Tym Ang His Poe Thr Asn 20	
	(C, EDWIRSGIEIN FOR SEQ ID NO: 577:	
15	(E) SEQUENCE CHARACTERISTICS: (A) LENGTH: 22 amino acids (B) TYPE: amino acid (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO. 577.	
	Thr Let Ile let Ala Val Ala Ala Ser The Val Phe Ile Ile Trp T. 1	hr
25	Thr Met lys Pne Arg Ile	
30	(%) THEOFMATION FOR SEQ 10 NO: 578: (1) SEQUENCE CHARACTERISTICS:	
	(A) LEDGTH: 28 amino acids E) TYPE: amino acid I, TOPGLOGY: linear	
35	(ii) SEQUENCE DESCRIPTION: SEQ ID NO: 578.	
	Val Thr Cys Gin Ser Asp Trp Arg Glu Leu Trp Val App Asp Ala I 1 5 10 15	le
40	Tro Arg Leu Leu Phe Ser Met Ile Leu Phé Val Ile 33 - 25	
45	(0) INFORMATION FOR SEQ 1D NO: 579:	
50	(i) GEQUENCE CHAPACTERISTICS: (A) LENGTH: 27 amino acids (B) TYPE: amino acid (D) TOPOLOGY: linear	
	(xi) sequence description: seq id No: 579:	

	(2) INFORMATION FOR SEQ ID NO: 580:
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 27 amino acids (B) TYPE: amino acid (D) TOPOLOGY: linear
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 580:
10	Met Val Leu Trp Arg Pro Ser Ala Asn Asn Gln Arg Phe Ala Phe Ser 1 5 10 15
	Pro Leu Ser Glu Glu Glu Glu Asp Glu Gln 20 25
15	
	(3) INFORMATION FOR SEQ ID NO: 581:
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 35 amino acids (B) TYPE: amino acid (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 581:
25	Lys Glu Pro Met Leu Lys 3lu Ser Phe Glu Gly Met Lys Met Arg Ser 1 5 10 15
30	Thr Lys Gln Glu Pro Asn Gly Asn Ser Lys Val Asn Lys Ala Gln Glu 20 25 30
	Asp Asp Leu 35
35	(2) INFGEMATION FOR SEQ ID NO: 582:
40	(1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 37 amino acids (B) TYPE: amino acid (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 582:
45	Lys Trp Val Glu Glu Asn Val Pro Ser Ser Val Thr Asp Val Ala Leu 1 5 10 15
	Pro Ala Leu Leu Asp Ser Asp Glu Glu Arg Met Ile Thr His Phe Glu 20 25 30
50	Arg Ser Lys Met Glu 35
55	(2) INFORMATION FCR SEQ ID NO: 583:
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 amino acids
60	(B) TYPE: amino acid (D) TCPOLCGY: linear

65.5

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: EFR:
     Asp Pro Arg Val Arg Leu Ash Ser Leu Thr Typ Lyb Hib Tie Phe Tie
5
     Ser Leu Thr Glm
10
     (2) INFORMATION FOR EEQ ID NO: ERL:
            (i) sequence derenoteristici:
                  (A) LEIGTH 13 Emins action
15
                  (B) TIPE: amino acid
                   (D) TOPOLOGY: limear
            (xx) SEQUENCE DESCRIPTION: SEQ ID NO: 594:
     Tyr Glu Pro Met Aug Pile Mad Met Ala Bet Gle Tyt Alap
20
           5
     (2) INFORMATION FOR JEQ ID NO: $45:
25
            (1) SEÇUBNE THARACTERISTICS:
                  (A) LENGTH: 16 amino acids
                   (B) TYPE: smuno aciá
                  (D) TOPOLOGY: linear
30
          (AL SEQUENTE DESCRIPTION SEQ ID NO: BES:
     Ile Arg Hid Gid Leu Thr Wal Leu Ard Ard Thr Arg Ero Ala Dys Ala
35
40
     (2) INFORMATION FOR SEQ ID NO: 536:
            (a) length: 10 animo acida
                  (B) T:PE: umino iciá
45
                   (D) TOPOLOGY: links:
            .xl. seguence descripting deg to war see.
     Met Asp Phe Kaa Mat Ala Leu Ile Tyr Asp
50
         i. Medicar: Time in
           *KIL BEÇUMENCE DESCRIPTION. OBÇUD NIH HET.
60
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N + A 3E A.

	Met 1	Gln	Glu	Met	Met 5	Arg	Asn	Gln	Asp	Arg 10	Ala	Leu	Ser	Asn	Leu IS	Glu		
5	Ser	Ile	Pro	Gly 20	Gly	Tyr	Asn	Ala										
10	(2)			ri∙on SEQUI						:								
15			(vi)	(B) T D) T	ENGT YPE: OPOL	ami OGY:	no a lin	cid ear			. દ 0	a					
13	Leu 1													Ser	Ala 15	Ala		
20	Gln	Glu	Gln	Phe 20	Gly	Gly	Asn	Pro	Phe 25									
25	(2)			rien														
30				(A) L B) T D) T	ENGT YPE: OPCL	H: 3 ami OGY:	2 am no a lin	ino cid ear	acid		: 58!	9 :					
35	Ala 1	Ser	Leu	Val	Ser 5	Asn	Thr	Ser	Ser	Gly 10	Glu	Gly	Ser	Gln	Pro 15	Ser		
	Arg	Thr	Glu	Asn 30	Arg	Asp	Pro	Leu	Pro 25	Asn	Pro	Trp	Ala	Pro 30	Gln	Thr		
40																		
45	(2)				ENCE A) L		RACT H: 7	ERIS' l am	TICS ino		s							
50			(xi)		D) T	OPCL	OGY :	lin	ear	EQ I	D NO	: 590	0:					
	Ser 1	Gln	Ser	Ser	Ser 5	Ala	Ser	Ser	Gly	Thr 10	Ala	Ser	Thr	Val	Gly 15	Gly		
55	Thr	Thr	Gly	Ser 20	Thr	Ala	Ser	Gly	Thr 25	Ser	Gly	Gln	Ser	Thr 30	Thr	Ala		.
60	Pro	Asn	Leu 35	Val	Pro	Gly	Val	Gly 40	Ala	Ser	Met	Phe	Asn 45	Thr	Pro	Gly		

```
Met Gln Ser Leu Leu Gln Gln Ile Thr Glu Asn Pro Gln Leu Met Gin
     50 55 60
    Asn Met Leu Ser Ala Pro Tyr
5
     65
     (2) INFORMATION FOR SEQ ID NO: 591:
10
           (i) SEQUENCE CHARACTERISTICS:
                 (A) LENGTH: 45 amino acids
                 (B) TYPE: amino acid
                 (D) TOPOLOGY: linear
           (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 591:
15
     Met Arg Ser Met Met Gln Ser Leu Ser Gln Asn Pro Asp Leu Ala Ala
                                     10
     1 5
     Gin Met Met Leu Asn Asn Pro Leu Phe Ala Gly Asn Pro Gln Leu Gln
20
                                 25
     Glu Gln Met Arg Gln Gln Leu Pro Thr Phe Leu Gln Gln
                             40 45
      35
25
     (2) INFORMATION FOR SEQ ID NO: 592:
          (i) SEQUENCE CHARACTERISTICS:
30
                (A) LENGTH: 73 amino acids
                  (B) TYPE: amino acid
                  (D) TOPOLOGY: linear
            (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 592:
35
      Met Gln Asn Pro Asp Thr Leu Ser Ala Met Ser Asn Pro Arg Ala Met
                           10 15
      Gln Ala Leu Leu Gln Ile Gln Gln Gly Leu Gln Thr Leu Ala Thr Glu
40
      Ala Pro Gly Leu Ile Pro Gly Phe Thr Pro Gly Leu Gly Ala Leu Gly
      Ser Thr Gly Gly Ser Ser Gly Thr Ash Gly Ser Ash Ala Thr Pro der
 45
                            55
      Glu Asn Thr Ser Pro Thr Ala Gly Thr
            70
 50
         والأزارة فالمناسد بالمناسب المناسبة المناسبة
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	Thr Glu Pro Gly His Gln Gin Phe Ile Gln Gln Met Leu Gln Ala Leu 1 5 10 15	
5	Ala Gly Val Asn Pro Gln Leu Gln Asn Pro Glu Val Arg Phe Gln Gln 20 25 30	
	Gim Leu Gir Gln Leu Ser Ala Met Gly Phe Leu Asn Arg Glu Ala Asn 35 40 45	
10	Let Gim Ala Leu Ile Ala Thr Gly Gly Asp Ile Ash Ala Ala Ile Glu 55 60	
15	Ard Led Led Gly Ser Gln Pro Ser 88 70	
20	(2) SEQUENCE CHARACTERISTICS: (A) LENGTH: 45 amino acids (B) TYPE: amino acid (D) TOPOLOGY: linear	
25	(Mi) SEQUENCE DESCRIPTION: SEQ ID NO: 594: Arg Ann Pro Ala Met Met Gln Glu Met Met Arg Asn Gln Asp Arg Ala 1 5 10 15	
30	Leu Ser Ash Leu Glu Ser Ile Pro Gly Gly Tyr Ash Ala Leu Ard Arg 20 25 30	
	Met Tym Thr Asp Ile Gln Glu Pro Met Leu Ser Ala Ala	
35	(2) DITCEMATION FOR SEQ ID NO: 595:	
40	 SEQUENCE CHARACTERISTICS: (A) LENGTH: 13 amino acids (B) TYPE: amino acid (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 595: 	
45	Gly Asn Pro Phe Ala Ser Leu Val Ser Asn Thr Ser Ser 1 5 10	
50	(2) INFOPMATION FOR SEQ ID NO: 596:	
55	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 11 amino acids (B) TYPE: amino acid (D) TOPOLOGY: linear (N1) SEQUENCE LESCRIPTION: SEQ ID NO: 596:	
60	Glu Asn Arg Asp Pro Leu Pro Asn Pro Trp Ala 1 5 10	

```
(2) INFORMATION FOR SEQ ID NO: 597:
          (i) SEQUENCE CHAPACTERISTICS:
5
                 (A) LENGTH: 17 amino acids
                  (B) TYPE: amino acid
                  (D) TOPOLOGY: linear
           (X1) SEQUENCE DESCRIPTION: SEQ ID NO: 597:
10
     Gly Lys Ile Leu Lys Asp Gin Asp Thr Leu Ser Cln His Gly Ile His
     - 10 · 10
     Asp
15
     (2) INFORMATION FOR SEQ ID NO: 598:
20
            (i) SEQUENCE CHARACTERISTICS:
                 (A) LENGTH: 14 amino acids
                  (B) TYPE: amino acid
                  (D) TOPOLOGY: linear
            (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 598:
25
     Gly Leu Thr Val His Leu Val Ile Lys Thr Gln Asn Arg Pro
      1 5
30
     (2) INFORMATION FOR SEQ ID NO: 599:
            (i) SEQUENCE CHARACTERISTICS:
                  (A) LENGTH: 18 amino acids
35
                   (B) TYPE: amino acid
                  (D) TOPOLOGY: linear
            (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 599:
      Ser Glu Leu Gln Ser Gln Met Gln Arg Gln Leu Leu Ser Asn Pro Glu
40
      1 5 10
      Met Met
45
      (2) INFORMATION FOR SEQ ID NO: 600:
50
           (i) SEQUENCE CHARACTERISTICS:
                   (A) LENGTH: 14 amino acids
                   (B) TYPE: amino acid
```

10 A

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(2) INFORMATION FOR SEQ ID NO: 601:
            (1) SECUTICE CHAPACTERISTICS:
                 (A) LENGTH: 18 amino acids
5
                  (B) TYPE: amino acid
                  (D) TOPOLOGY: linear
            (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 801:
     Arg Gln Leu Ile Met Ala Asn Pro Gln Mat Gln Gln Leu Ile Gln Arg
     1 5 11
10
     Asn Pro
15
     (2) INFORMATION FOR SEQ ID NO: 502:
            (i) SEQUENCE CHAPACTERISTICS:
20
                 (A) LENGTH: 27 amino acids
                  (3) TYPE: amino asid
                  (D) TOPOLOGY: linear
            (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 802.
25
     Asn Leu Cys His Val Asp Cys Gln Asp Leu Leu Ash Pro Ash Leu Leu
      1
     Ala Gly Ile His Cys Ala Lys Arg Ile Val Ser
              20
30
     (2) INFORMATION FOR JEQ ID NO: 603:
35
            (i) SEQUENCE CHAFACTERISTICS:
                  (A) LEXGTH: 23 amino acids
                   (E) TYPE: amino acid
                  (D) TOPOLOGY: linear
            (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 603:
40
     Leu Asp Gly Phe Glu Gly Tyr Ser Leu Ser Asp Trp Leu Cys Leu Ala
      1 5
     Phe Val Glu Ser Lys Phe Asn
45
      (2) INFORMATION FOR SEQ ID NO: 604:
50
             (i) SEQUENCE CHARACTERISTICS:
                  (A) LENGTH: 22 amino acids
                   (B) TYPE: amino acid
                   (D) TOPOLOGY: linear
55
             (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 604:
      Ash Glu Ash Ala Asp Gly Ser Phe Asp Tyr Gly Leu Phe Gln Ile Ash
60
    Ser His Tyr Trp Cys Asn
```

5	(2) INFORMATION FOR SEQ ID NO: 605:
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 27 amino acids (B) TYPE: amino acid (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 605:
15	Asn Leu Cys His Val Asp Cys Gln Acp Leu Leu Asn Fro Asn Leu Leu 1 5 10 15 Ala Gly Ile His Cys Ala Lys Arg Ile Val Scr 20 25
20	(3) INFORMATION FOR SEQ ID NO: 606:
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 13 amino acids (E) TYPE: amino acid (E) TOPOLOGY: linear (XI) SEQUENCE DESCRIPTION: SEQ ID NO: 606:
30	Ile Arg Glu Val Asn Glu Val Ile Gln Asn Pro Ala Thr 1 5 10
35	(2) INFORMATION FOR SEQ ID NO: 607: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH:~30 amino acids (B) TYPE: amino acid (D) TOPOLOGY: linear
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 607:
	Ile Thr Ard Ile Deu Leu Ser His Phe Ash Trp Asp Lyo Glu Dys Leu 1 5 10 15
45	Met Glu Arg Tyr Phe App Gly Ash Leu Glu Lys Leu Phe Ala 20 25 30
50	(2) INFORMATION FOR SEQ ID NO: 608:
	(i) SEQUENCE CHARACTERISTICS:
60	Acm Thr Art Cer Cer Alt Alm App Met Process (1) Und Lee Syd Dan Lee 1

Asn Tyr Fro Asn Ser Tyr Phe 20 5 (2) INFORMATION FOR SEQ ID NO: 609: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 amino acids 10 (B) TYPE: amino acid (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 609: Cys Asp Ile Leu Val Asp Asp Asn Thr Val Met Arg Leu Ile Thr Asp 15 1.0 Ser Lys Val Lys Leu Lys Tyr Gln His Leu Ile Thr Asn Ser Phe Val 25 Glu Cys Asn Arg Leu Leu Lys Trp Cys Fro Ala Pro Asp Cys His His 20 Val Vai Lys Val Gln Tyr Pro Asp Ala Lys Pro Val 55 25 (2) INFORMATION FOR SEQ ID NO: 610: 30 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 amino acids (B) TYPE: amino acid (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 610: 35 Cys Asp Ile Leu Val Asp Asp Asn Thr Val Met Arg Leu Ile Thr Asp - 10 Ser Lys Val Lys Leu Lys Tyr Gln His Leu Ile Thr Asn Ser Phe Val 40 Glu Cys Asn Arg Leu Leu Lys Trp Cys Pro Ala Pro Asp Cys His His 40 45 Val Val Lys Val 50 (2) INFORMATION FOR SEQ ID NO: 611: 50 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 amino acids (B) TYPE: amino acid 55 (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 611: Gly Cys Asn His Met Val Cys Arg Asn Gln Asn Cys Lys Ala Glu Phe 60

	Cys Trp Val Cys Leu Gly Pro Trp Glu Fro His Gly Hor Ala Trp Tyr 30 25 30
5	Ash Cys Ash Arg Tyr Abh Glu Asp Abp Ala Lys Ala Ala Ard Asp Ala 35 40 45
	Gln Glu Arg Ser Arg Ala Ala Leu Gln Arg Tyr Leu 50 55 60
10	
	(2) INFORMATION FOR SEQ ID NO: 612:
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 amino acids (B) TYPE: amino acid (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 612:
20	Phe Tyr Cys Asn Arg Tyr Met Asn His Met Gln Ser Leu Arg Phe Glu 1 5 10 15
25	His Lys Leu Tyr Ala Gln Val Lys Gln Lys Met Glu Glu Met Gln Gln 25 30
23	His Ash Met Ser Trp Ile Glu Val Gln Phe Leu Lys Lys Ala Val Asp 35 40 45
30	Val Leu Cys Gin Cys Arg Ala Thr Leu Met Tyr Thr 50 55 60
35	(2) INFORMATION FOR SEQ ID NO: 613: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 amino acids
40	(B) TYPE: amino acid (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 613:
	Tyr Val Phe Ala Phe Tyr Leu Lys Lys Asn Asn Gln Ser Ile Ile Phe 1 5 10 15
45	Giu Ash Ash Sin Ala Asp Leu Giu Ash Ala Thr Giu Val Leu Ser Gly 25 30
50	Tyr Leu Glu Arg Asp Ile Ser Gln Asp Ser Leu Gln Asp Ile Lys Gln 35 40 45
50	Lys Val Glm App Lyn Tyr Arg Tyr Cys Glu Der Arg 50 - 55 - 60

1 CONTENSE CHAPACTERICTIONS

(A) LENGTH: C amino actio

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(D) TOPOLOGY: linear
            (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 614:
     Thr Gly Leu Gla Cys Gly His Lys Phe Cys Met Gln Cys Trp Ser Glu
5
     Tyr Leu Thr Thr Lyb Ile Met Glu Glu Gly Met Gly Gln Thr Ile Ser
                            25
     Cys Pro Ala His Gly
10
     (2) INFORMATION FOR SEQ ID NO: 615:
15
            (i) SEQUENCE CHARACTERISTICS:
                  (A) LENGTH: 21 amino acids
                   (B) TYPE, amino acid
20
                   (D) TOPOLOGY: linear
             (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 615:
     Mot Trp Gly Tyr Leu Phe Val Asp Ala Ala Trp Asn Phe Leu Gly Cys
                            10
25
      Leu Ile Cys Oly Trp
30
      (2) INFORMATION FOR SEQ ID NO: 616:
             (i) SEQUENCE CHARACTERISTICS:
                    (A) LENGTH: 46 amino acids
35
                    (B) TYPE: amino acid
                   (D) TOPCLOGY: linear
             (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 616:
      Met His Phe Ile Ser Ser Gly Asn Val Ser Ala Ile Arg Ser Ser Ile
40
                                         10
       1
      Leu Leu Leu Arg Xaa Ser Leu Ser Tyr Leu Gly Asn Cys Leu Arg Val
                           25
       Ser Ala Ile Phe Val Tyr Phe Leu Leu Phe Leu Leu Leu Ser
 45
                          40
               35
       (2) INFORMATION FOR SEQ ID NO: 617:
 50
              (i) SEQUENCE CHARACTERISTICS:
                    (A) LENGTH: 80 amino acids
                     (E) TYPE: amino acid
 55
                     (D) TOPOLOGY: linear
              (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 617:
       Met Asp Gln Ala Leu Arg Gly Ser Pro Ser Glu Gly Phe Ser Thr Asp
                               10
                        5
 60
```

	Pro .	Ser	Pro	Pro	Gln	Val (Gly	Arg ·	91n 25	Ile	i'ro	Jax	Phe	Prb 30	Pro	Trp
5	Arg .	Arg	Leu 35	Val	Lėu	Pro	Lys	Ala 40	3ep	3ly	∵;rs	Phe	Leu 45	Glu	Arg	Glu
	Trp	Trp 50	Leu	Cys	Val	Fhe	Lys 55	Leu	Arg	Thr	Arg	Pro 6d	Gly	Ala	Gla	Ala
10	His 65	Ala	Tyr	Asn	Ser	Ser 70	Ile	Leu	Gly	Gly	Arg 75	Gly	Lys	Gly	Ile	Thr 80
15																
	(2)	INF	orma	MOIT.	FOR	SEQ	ID I	NO: 6	518:							
20				((A) L (B) T (D) T	ENGT YPE: OPOL	H: l ami OGY:	31 a no a lin	mino cid ear	aci						
25				SEQ										bro	Glu	Gln
	Met 1	L⊕u	ı Pro) Ala	Leu 5	Ala	Ser	Cys	Cys	10	Pne	Ser	FIO	PLO	15	(1111
30	Ala	Ala	a Arg	g Leu 20		Lys	Leu	Gln	Glu 25		Glu	Lys	Gln	Gln 30	Lys	Val
	Glu	Phe	e Aro	a Lys	; Arg	Met	Slu	Lys 40		.Val	Ser	Asp	Phe 45		Gln	Asp
35	Ser	GI;		n Ile	e Lys	Lys	Lys 55		· Glm	i Pro	Met	Ast 60		: Ile	Glu	a Arç
40	Ser 65		e Le	u His	s Asp	70 Val		l Glu	ı Val	. Ala	. Gly 75	Let	1 Thr	Ser	Phe	e Ser 80
40	Phe	e Gl	y Gl	u Anj	p Asp 98		CA:	a Arg	ı Tyı	r Val 90		: Ile	e Phe	e Lys	9°	s Glu
45	Phe	a Al	a Pr	o Se 10		o Glu	ı di	1 ડિલ્પ	1 AS 109	5 Se:	т Туп	r Ar	g Ar	a Gly	/ 51:)	ı Gl
	Тгт	o As	р Рr 11	o Gl: .5	n Ly:	s Ali	a 61)	u Sh 120		s Arj	д Азі	n Ka	a Ly: 12	s Glu 5	i Len	u Al
50	Glr	n Ar 13	g Gl 0	n.												

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A Liftiste, To ording a 14 (B) TYPE: much serid (C) POPCI/SY, linear

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 619:
5	Glu Glu Glu Ala Ala Gin Gln Gly Pro Val Val Val Ser Pro Ala Ser 1 5 10 15
5	Asp Tyr Lys Asp Lys Tyr Ser His Leu Ile Gly Lys Gly Ala Ala Lys 20 25 30
10	Asp Ala Ala His Met Leu Gln Ala Asn Lys Thr Tyr Gly Cys Xaa Pro 35 40 45
	Val Ala Asn Lys Arg Asp Thr Arg Ser Ile Glu Glu Ala Met Asn Glu 50 55 60
15	Ile Arg Ala Lys Lys Arg Leu Arg Gln Ser Gly Glu 65 70 75
20	(2) INFORMATION FOR SEQ ID NO: 620:
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 40 amino acids (B) TYPE: amino acid (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 620:
30	Pro Pro Arg Arg Pro Ala Gln Leu Pro Leu Thr Pro Gly Ala Gly Gln 1 5 10 15
50	Gly Ala Gly Arg Asp Lys Ala Ala Ala Ile Arg Ala His Pro Gly Ala 20 25 30
35	Pro Pro Leu Asn His Leu Leu Pro 35 40
40	(2) INFORMATION FOR SEQ ID NO: 621: (i) SEQUENCE CHAFACTERISTICS: (A) LENGTH: 28 amino acids (B) TYPE: amino acid
45	(D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 621:
	Ala Val Pro Gln Ala Gly Gly Lys Gln Val Phe Asp Leu Ser Pro Leu 1 5 10 15
50	Glu Leu Gly Tyr Val Arg Gly Met Cys Val Cys Val 20 25
55	(2) INFORMATION FOR SEQ ID NO: 622:
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 207 amino acids (B) TYPE: amino acid
60	(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 61	andamors (FV	DESCRIPTION:	SEQ	ID	: Ott	622
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Met Leu Pro Ala Leu Ala Ser Cys Cys His Phe Ser Pro Pro Glu Gln

Ala Ala Arg Leu Lys Lys Leu Gln Glu Gln Glu Lys Gln Gln Lys Val 20 25 30

Glu Phe Arg Lys Arg Met Glu Lys Glu Val Ser Asp Phe Ile Gln Asp 10 35 40 45

Ser Gly Gln Ile Lys Lys Lys Phe Gln Pro Met Abn Lys Ile Glu Arg 50 55 60

Ser Ile Leu His App Val Val Glu Val Ala Gly Leu Thr Ser Phe Ser 65 70 75 80

Phe Gly Glu App App App Cys Arg Tyr Val Met Ile Phe Lys Lys Glu 85 90 95

20 Phe Ala Pro Ser Asp Glu Glu Leu Asp Ser Tyr Arg Arg Gly Glu Glu 100 105 110

Trp Asp Pro Gln Lys Ala Glu Glu Lys Arg Asn Xaa Lys Glu Leu Ala 25 115 120 125

Gln Arg Gin Glu Glu Glu Ala Ala Gin Gln Gly Pro Val Val Val Ser 130 135 140

Pro Ala Ser Asp Tyr Lys Asp Lys Tyr Ser His Leu Ile Gly Lys Gly 145 150 155 160

Ala Ala Lys Asp Ala Ala His Met Leu Gln Ala Asn Lys Thr Tyr Gly 165 170 175

Cys Xaa Pro Val Ala Asn Lys Arg Asp Thr Arg Ser Ile Glu Glu Ala 180 185 190

Met Asn Glu fle Arg Ala Lys Lys Arg Leu Arg Gln Ser Gly Glu
40 195 200 205

(2) INFORMATION FOR SEQ ID NO: 623:

(i) JEQUENCE CHARACTERISTICS:

(A) LENGTH: 34 amino acids

(B) TYPE: amino acid

(D) TOPOLOGY: linear

50 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 623:

Lou Lou Cys Pro Val Leu Ash Ser Gly Xaa Ser Tro Ash The Pro His

1: 1.

No. 1 A Section 18

35

	(2) I	MFOR	ITAM	ON F	OR 3	EQ I	D NC): 62	:4:									
5				(B (D) LEI) TY:) TO:	NGTH PE: (POLO)	: 28 amin GY:	ami: o ac line	no a id ar									
10				SEQUI										D	Desc. 1	7 h =		
	Pro S	Ser T	Thr I	Prc 1	rp E 5	Phe I	Jeu I	Phe I	Leu l	10	ily 1	eu T	inr (rλa :	15	rne		
15	Ser 1	Thr S	Ser B	4is 1 20	Pro A	Arg I	Prp A	Asp :	Ser : 25	Ile I	Pro 1	Pro						
20	(2)			EÇUE														
		(1) 5	ھے)) LE		i: 22	7 ал	nino	acid	ls							
25		(xi)	SEQU		POLC DES				Q ID	NO:	625	:					
	Glu 1	Leu	Ser	Ile	Ser 5	Ile	Ser	Asn	Val	Ala 10	Leu	Ala	Asp	Glu	Gly 15	Glu		
30	Tyr	Thr	Cys	Ser 20	Ile	Phe	Thr	Met	Pro 25	Val	Arg	Thr	Ala	Lys 30	Ser	Leu		
	Val	Thr	Val 35	Leu	Gly	Ile	Pro	Gln 40	Lys	Pro	Ile	Ile	Thr 45	Gly	Tyr	Lys		
35	Ser	Ser 50	Leu	Arg	Glu	Lys	Asp 55	Thr	Ala	Thr	Leu	Asn 60	Cys	Gln	Ser	Ser		
40	Gly 65	Ser	Lys	Pro	Ala	Ala 70	Arg	Leu	Thr	Trp	Arg 75	Lys	Gly	Asp	Gln	Glu 80		
	Leu	His	Gly	Glu	Pro 85	Thr	Arg	Ile	Gln	Glu 90	Asp	Pro	Asn	Gly	Lys 95	Thr		
45	Phe	Thr	Val	Ser 100	Ser	Ser	Val	Thr	Phe 105	Gln	Val	Thr	Arg	Glu 110	Asp	Asp		
	Gly	Ala	Ser 115	Ile	Val	Cys	Ser	Val 120	Asn	His	Glu	Ser	Leu 125	Lys	Gly	Ala		
50	Asp	Arg 130	Ser	Thr	Ser	Gln	Arg 135		Glu	Val	Leu	Туг 140	Thr	Pro	Thr	Ala		
55	Met 145	Ile	Arg	Pro	Asp	Pro 150		His	Pro	Arg	Glu 155		Gln	Lys	Leu	Leu 160		
	Leu	His	Cys	Glu	Gly 165		Gly	Asn	Pro	Val 170		Gln	Gln	Tyr	Leu 175	Trp	-	-
60	Glu	Lvs	Glu	Glv	Ser	Val	Pro	Pro	Leu	Lys	Met	Thr	Gln	Glu	Ser	Ala		

				180					185					130		
5	Leu	Ile	Phe 195	Pro	Phe	Leu	Asn	Lys 200	Ser	Asp	Ser	Gly	Thr 205	Tyr	Gly	Cys
5	Thr	Ala 210	Thr	Ser	Asn	Met	Gly 215	Ser	Tyr	Lys	Àla	Tyr 220	Tyr	Thr	Leu	Asn
10	Val 225	Aon	Asp													
15	(2)	HTF		ţ	ENCE A) L B) T	CHA FINGT YPE :	RACT H: 6	ERIS'	TICS ino cid		ls					
20			(xi)	: E2						EQ I	D NO	: 62	6:			
	Glu 1		Per	110	fer E	ile	Ser	Asn	Val	Ala 10		Ala	Asp	Glu	Gly 15	Glu
25	Tyr	Thr	Cys	Ser 20	He	Phe	Thr	Met	Pro 25		Arg	Thr	Ala	Lys 30	Ser	Leu
30	Val	Thr	Val 35		Gly	Ile	Pro	Gln 40		Pro	. Il∈	lle	Thr 45		Τγτ	Lys
	Ser	Ser 50		∟Ara	Glu	. Lys	Asp 55		- Ala	Thr	: Leu	Asr 60		Gln	Ser	Ser
35																
40	(2)	1111		NTICH SECU												
15					(A) (B) (D)	LENG TYPE TOPO	TH: : am LOGY	65 a ino : li	mino acid near	aci			3 7.			
45		21) (E										r Tir	n Arc	r Tan
		s GI: 1	n 5et	r Ser		y 548: 5	гьy	S PI	OAL	1		a re	(1 III:	. 112	19	ı Lye
50	Gl	y As	p Gl	n Glu 20		ı Hi	s Gl	y Gl	u Pro		r Ar	g Il	e Gli	n Glu 30		p Pro
	Ąn	n ii	ur Ind	ia Tihi	r Ph	e Th	r Vi	1 50	r Se	r 36	r Va	1 Th	r Ph	e Gli	n Va	1 Thi

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5	(2) INFORMATION FOR SEQ ID NO: 628:
5	(i) SEQUENCE CHARACTERISTICS:
	(A) LENGTH: 58 amino acids
	(B) TYPE: amino acid (D) TOPOLOGY: linear
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 628:
	His Glu Ser Leu Lys Gly Ala Asp Arg Ser Thr Ser Gln Arg Ile Glu
	1 5 10 15
15	Val Leu Tyr Thr Pro Thr Ala Met Ile Arg Pro Asp Pro Pro His Pro 20 25 30
20	Arg Glu Gly Gln Lys Leu Leu His Cys Glu Gly Arg Gly Asn Pro 35 40 45
20	Val Pro Gin Gln Tyr Leu Trp Glu Lys Glu 50 55
25	(2) INFORMATION FOR SEQ ID NO: 629:
	(i) SEQUENCE CHARACTERISTICS:
30	(A) LENGTH: 52 amino acids (B) TYPE: amino acid
	(D) TOPOLOGY: linear (xi) SEQUENCE DESCRIFTION: SEQ ID NO: 629:
35	Trp Glu Lys Glu Gly Ser Val Pro Pro Leu Lys Met Thr Gln Glu Ser 1 5 10 15
	Ala Leu Ile Phe Pro Phe Leu Asn Lys Ser Asp Ser Gly Thr Tyr Gly 20 25 30
40	Cys Thr Ala Thr Ser Asn Met Gly Ser Tyr Lys Ala Tyr Tyr Thr Leu 35 40 45
	Asn Val Asn Asp
45	50
	(2) INFORMATION FOR SEQ ID NO: 630:
50	(i) SEQUENCE CHARACTERISTICS:
	(A) LENGTH: 123 amino acids(B) TYPE: amino acid(D) TOPOLOGY: linear
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 630:
55	Val Pro Glu Leu Pro Asp Arg Val His Gln Leu His Gln Ala Val Gln 1 5 10 15
	Gly Cys Ala Leu Gly Arg Pro Gly Phe Pro Gly Gly Pro Thr His Ser
60	20 25 30

	Gly His His Lys Ser His Pro Gly Pro Ala Gly Gly Asp Tyr Asn Arg 35 40 45
5	Cys Asp Arg Pro Gly Gln Val His Leu His Asn Pro Arg Gly Thr Gly 50 60
10	Arg Arg Gly Gln Leu His Pro Thr Ala Gly Pro Gly Val His Arg Arg 65 70 75 80
10	Ala Cys Pro Ser Gln Gln Leu Pro His Arg Leu Gly Pro Gly Val Pro 85 90 95
15	Cys Pro Ser Pro Ser Leu Thr Pro Val Leu Pro Ser Trp Thr Gln Ser 100 105 110
	Trp Cys Gly Leu Pro Gly Tyr Thr Ser Ser Ser 115 120
20	
	(2) INFORMATION FOR SEQ ID NO: 631:
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 22 amino acids (B) TYPE: amino acid (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 631:
30	Val His Gln Leu His Gln Ala Val Gln Gly Cys Ala Leu Gly Arg Pro 1 5 10 15
35	Gly Phe Pro Gly Gly Pro 20
	(2) INFCRMATION FOR SEQ ID NO: 632:
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 42 amino acids (B) TYPE: amino acid
	(B) TIPE: amino deld (D) TOPOLOGY: linear (X1) SEQUENCE DESCRIPTION: SEQ ID NO: 632:
45	Pro The His See Gly His His Lyn See His Pro Gly Pro Ala Gly Gly 1 5 10 15
50	Asp Tyr Asn Arg Cys Asp Arg Pro Gly Gln Val His Leu His Asn Pro 20 25 30
	Arg Gly Thr Gly Arg Arg Gly Gln Leu His
60	Ti JENERGE CHAPACIEFICTICS: Al IENGTH 55 amuno acide

				(D)	TOI	POLO	amino Sy: 1	inea	ar									
		(:	ki) S	SEQUE	NCE	DESC	PIM	'ICN:	SEÇ) ID	NO:	633:						
5	Leu F	His F	Pro T	Thr A	ala C 5	Gly F	Pro G	ly V	al E	lis A	Arg P	Arg A	la C	ys F	Pro S 15	Ser		
. 0	Gln (Gln I	Leu I	20 20	His A	Arg I	Leu G	ly F	Pro 0 25	Sly V	/al E	ers C	ys F	ro s	Ser H	Pro		
10	Ser I	Leu '	Thr I	Pro V	Jal I	Leu I	Pro S	Ser 1	rp 1	Thr (Gln S	Ser T	2rp (45	rys (Gly I	Leu		
15	Pro (Gly ' 50	Γγτ '	Thr S	Ser :	Ser S	Ser 55											
20	(2)			EQUE	NCE	CHAR		RIST	ICS:	acio	is							
25			(xi)	(1) TC	OPOLO	amin XGY: SCRIP	line	ear	Ç II	ONO:	: 634	:					
	Ser 1	Leu	Arg	Arg	Pro 5	Arg	Ser	Ala	Ala	Хаа 10	Gln	Thr	Leu	Thr	Thr 15	Phe		
30	Leu	Ser	Ser	Val 20	Ser	Ser	Ala	Ser	Ser 25	Ser	Ala	Leu	Pro	Gly 30	Ser	Arg		
35	Glu	Pro	Cys 35	Asp	Pro	Arg	Ala	Pro 40	Pro	Pro	Pro	Arg	Ser 45	Gly	Ser	Ala		
33	Ala	Ser 50	Cys	Cys	Ser	Cys	Cys 55	Cys	Ser	Суѕ	Pro	Arg 60	Arg	Arg	Ala	Pro		
40	Leu 65	Arg	Ser	Pro	Arg	Gly 70	Ser	Lys	Arg	Arg	Ile 75	Arg	Gln	Arg	Glu	Val 80		
	Val	Asp	Leu	Tyr	Asn 85		Met	Cys	Leu	Gln 90	Gly	Pro	Ala	Gly	Val 95	Pro		
45	Gly	Arg	Asp	Gly 100		Pro	Gly	Ala	Asn 105		Ile	Pro	Gly	Thr 110	Pro	Gly		
50	Ile	Pro	Gly 115		Asp	Gly	Phe	Lys 120		Glu	. Lys	Gly	Glu 125	Cys	Leu	Arg		
50	Glu	Ser 130		e Glu	. Glu	ser	Trp 135		Pro	Asn	Tyr	Lys 140		Cys	Ser	Trp		
55	Ser 145		: Lei	ı Asn	Тут	Gly 150		Asp	Leu	Gly	/ Lys		Ala	. Glu	ı Cys	Thr 160		
	Ph∈	e Thi	. Lys	s Met	: Arg		r Asn	Ser	Ala	Let 170		g Val	. Leu	Phe	e Sei 175	Gly	•	-
60	Sei	r Lei	ı Arş	g Let	ı Lys	s Cys	s Arg	, Asr	n Ala	а Суз	s Cyrs	s Glr	a Arg	, Tr	o Tyi	r Phe		

		180		185	190)
	Thr Phe Asn	Gly Ala Glu	Cys Ser 200	Gly Pro Leu	Pro Ile Gli 205	ı Ala Ile
5	Ile Tyr Leu 210	ı Asp Gln Gly	Ser Pro 215	Glu Met Asn	Ser Thr Il. 220	e Asn Ile
10	His Arg Thr 225	Ser Ser Val	Glu Gly	Leu Cys Glu 235	Gly Ile Gly	y Ala Gly 240
	Leu Val Asp	o Val Ala Ile 245	Trp Val	Gly Thr Cys 250	Ser Asp Ty	r Pro Lys 255
15	Gly Asp Ala	a Ser Thr Gly 260	Trp Asn	Ser Val Ser 265	Arg Ile Il 27	e Ile Glu O
20	Glu Leu Pro 271	_				
	(2) INFORM	ATION FOR SEQ	ID NO: 6	535 :		
25	(i)	SEQUENCE CHA (A) LENGT (B) TYPE: (D) TOPOL	H: 61 am amino a	ino acids cid		
30	(xi	(D) TOPOL SEQUENCE DE	SCRIPTIO	N: SEQ ID NO	: 635:	
50	Ser Leu Ar 1	g Arg Pro Arg 5	Ser Ala	Ala Xaa Gln 10	Thr Leu Th	nr Thr Phe 15
35	Leu Ser Se	er Val Ser Ser 20	Ala Ser	Ser Ser Ala 25	Leu Pro G	ly Ser Arg 30
		rs Asp Pro Arg 35	Ala Pro 40		Arg Ser G 45	ly Ser Ala
40	Ala Ser Cy 50	vs Cys Ser Cys	: Cys Cys 55	Ser Cys Pro	Arg Arg 60	
45	(2) INFOR	MATION FOR SEC	Q ID NO:	536:		
50		(B) TYPE	TH: 52 a : amino LOGY: li	mino acids acid near	D: 636:	
				u steen type the	s Ama Ard I	le art Sin
60	dy Val P	end Aly Add Al Se	p day 20 4		a A.H. Aly. 45	1100 Et (417)

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Thr Pro Gly Ile
         50
5
     (2) INFORMATION FOR SEQ ID NO: 637:
            (i) SEQUENCE CHARACTERISTICS:
10
                  (A) LENGTH: 52 amino acids
                   (B) TYPE: amino acid
                   (D) TOPOLOGY: linear
             (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 637:
     Thr Pro Gly Ile Pro Gly Arg Asp Gly Phe Lys Gly Glu Lys Gly Glu
15
      1 5
                                         10
     Cys Leu Arg Glu Ser Phe Glu Glu Ser Trp Thr Pro Asn Tyr Lys Gln
                  2.0
20
     Cys Ser Trp Ser Ser Leu Asn Tyr Gly Ile Asp Leu Gly Lys Ile Ala
                              40
             35
     Glu Cys Thr Phe
25
         50
      (2) INFORMATION FOR SEQ ID NO: 638:
30
             (i) SEQUENCE CHARACTERISTICS:
                    (A) LENGTH: 66 amino acids
                    (B) TYPE: amino acid
                    (D) TOPOLOGY: linear
             (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 638:
35
      Phe Thr Lys Met Arg Ser Asn Ser Ala Leu Arg Val Leu Phe Ser Gly
      Ser Leu Arg Leu Lys Cys Arg Asn Ala Cys Cys Gln Arg Trp Tyr Phe
40
                         25
      Thr Phe Asn Gly Ala Glu Cys Ser Gly Pro Leu Pro Ile Glu Ala Ile
45
      Ile Tyr Leu Asp Gln Gly Ser Pro Glu Met Asn Ser Thr Ile Asn Ile
                              55
      His Arg
50
       65
       (2) INFORMATION FOR SEQ ID NO: 639:
 55
              (i) SEQUENCE CHARACTERISTICS:
                    (A) LENGTH: 51 amino acids
                     (B) TYPE: amino acid
                    (D) TOPOLOGY: linear
```

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 639:

	Arg Thr Ser	Ser Val (Glu Gly	Leu Cys	Glu Gly 10	· Ile Gl	y Ala G	ly Leu 15
5	Val Asp Val	Ala Ile '	Irp Val	Gly Thr 25		Asp Ty	r Pro L 30	ys Gly
10	Asp Ala Ser 35		Irp Asn	Ser Val 40	Ser Arg	g Ile Il 4		lu Glu
	Leu Pro Lys 50							
15	(2) INFCRMA	TION FOR	SEQ ID 1	NO: 640:				
20		(B) T	ENGTH: 2 (PE: ami DPOLOGY:	6 amino no acid linear	acids	o: 6 4 0:		
25	Thr Lys Lys	s Glu Asn 5	Cys Arg	Pro Ala	a Ser Le 10	u Met As	sn Ile A	sp Thr 15
	Lys Ile Let	u Asn Lys 20	Ile Leu	Met Asr 25				
30								
	(2) INFORM	ATION FOR	SEQ ID	NO: 641	:			
35		(B) T	ENGTH: 2 YPE: am: OPOLOGY	214 amin ino acid : linear	o acids l	NO: 641:		
40	Met Cys As 1	n Leu Pro 5	Ile Lys	s Val Va	l Cys Ai	rg Ala A	sn Ala	Jlu Tyr 15
45	Met Ser Pr	o Ser Gly 20	Lys Val	i Pro Xa C	a Xaa H 5	is Val G	Sly Asn 30	Gln Val
7.'	Val Ser Gl 3	u Leu Gly S	Pro Ile	e Val Gl 40	n Phe V	al Lys A	da Lys 45	Gly His
50	Ser Leu Se 50	er Asp Gly	Leu Gli 5		al Gln L	ys Ala C 60	Glu Met	Lys Ala
	Tyr Met Gl	lu Leu Val	Asn Asi	n Met La	eu Leu T	hr Ala € 75	Plu Leu	Tyr Ler og
60	aky Jer D	10 Tyn 1911 186	lij li		.a H 1 15	20-1	N. 1 (2.1 11	ir liği

	Gln	Trp	Glu 115	Val	Lys	Arg	Lys	Xaa 120	Lys	Ala	Ile	Gly	Trp 125	Gly	Lys	Lys
5	Thr	Leu 130	Asp	Gln	Val	Leu	Glu 135	Asp	Val	Asp	Gln	Cys 140	Cys	Gln	Ala	Leu
	Ser 145	Gln	Arg	Leu	Gly	Thr 150	Gln	Pro	Tyr	Phe	Phe 155	Asn	Lys	Gln	Pro	Thr 160
10	Glu	Leu	Asp	Ala	Leu 165	Val	Phe	Gly	His	Leu 170	Tyr	Thr	Ile	Leu	Thr 175	Thr
15	Gln	Leu	Thr	Asn 180	Asp	Glu	Leu	Ser	Glu 185	Lys	Val	Lys	Asn	Tyr 190	Ser	Asn
	Leu	Leu	Ala 195		Cys	Arg	Arg	Ile 200	Glu	Gln	His	Tyr	Phe 205	Glu	Ąsp	Arg
20	Gly	Lys 210		Arg	Leu	Ser										
25	(2)	INF	ORMA	MOIT	I FOR	: SEQ	ID	NO :	642:							
			(i)		(A) I (B) '	LENG: IYPE	TH: 4	TERIS 44 am ino a : lir	uno cid		ds					
30			(xi)					PTIC		SEQ :	ID N	D: 64	12:			
		t Cys 1	s Asr	ı Lev	ı Pro		e Lys	s Val	Va]	l Cys		g Alá	a Asr	n Ala	Glu 15	ı Tyr
35	Me	t Se	r Pro	Sei 20		/ Lys	s Val	l Pro	25 25		a His	s Val	l Gly	y Asr 30		n Val
40	Va	l Se:	r Glu 39		u Gly	y Pro	o Ile	e Val 40		n Phe	e Va	l Lys	5			
	(2) IN	FORM	ATIO	n FO	R SE	Q ID	NO:	643	:						
45			(i)	SEQ	(A) (B)	LENG TYPE	TH: E: an	TERI: 44 a nino : li	minc acid	aci i	.ds					
50			(xi	.) SE				IPTI			ID N	10: 6	43:			
50	Ph	ie Va 1	l Ly	s Al	a Ly	s Gl 5	y Hi	s Se	r Le		r As O	p Gl	y Le	u Gl	u Gl 1	u Val 5
55	Gl	n Ly	's Al		.u Me !0	t Ly	s Al	а Ту		t Gl	u Le	eu Va	l As		n M∈ 0	et Leu
	L€	eu Th		.a Gl 5	u Le	u Ty	r Le	u Gl 4		.b C?	's As	sp Gl	.u			
60																

	(2) INFORMATION FOR SEQ ID NO: 644:
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 amino acids (B) TYPE: amino acid (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 644:
10	Leu Gln Trp Cys Asp Glu Ala Thr Val Gly Xaa Ile Thr His Xaa Arg 1 5 10 15
15	Tyr Gly Ser Pro Tyr Pro Trp Pro Leu Xaa His Ile Leu Ala Tyr Gln 20 25 30
1.5	Lys Gln Trp Glu Val Lys Arg Lys Xaa Dys Ala Ile Gly Trp Gly Lys 35 40 45
20	Lys Thr Leu 50
25	(2) INFORMATION FOR SEQ ID NO: 645: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 43 amino acids (B) TYPE: amino acid
30	(D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 645:
	Asp Gin Val Leu Glu Asp Vil Asp Gin Cys Cys Gln Ala Leu Ser Gin 1 5 10
35	Arg Leu Gly Thr Gln Pro Tyr Phe Phe Asn Lys Gln Pro Thr Glu Leu 20 25 30
40	Asp Ala Leu Val Phe Gly His Leu Tyr Thr Ile 35 40
	(2) INFORMATION FOR SEQ ID NO: 646:
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 41 amino acids (B) TYPE: amino acid (D) TOPOLOGY: linear
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 646: Leu Thr Thr Gln Leu Thr Acn Asp Glu Leu Ser Glu Lys Val Lys Asr
	Leu Thr Thr Gin Leu Thr Arn Asp Giu hed Set Sid Bys 742 275 (1875)

	(3) INFORMATION FOR SEQ ID NO: 647:
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 70 amino acids (B) TYPE: amino acid (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ IE NO: 647:
10	Met Xaa Xaa Xaa Asn Ser His Ile Thr Ile Fhe Thr Leu Asn Val Asn 1 5 10 15
15	Gly Leu Asn Ala Pro Asn Glu Arg His Arg Leu Ala Asn Trp Ile Gln 20 25 30 Ser Gln Asp Gln Val Cyc Cys Ile Gln Glu Thr His Leu Thr Gly Arg
	36 40 45
20	Asp Thr His Arg Leu Lys Ile Lys Gly Trp Arg Lys Ile Tyr Gln Ala 50 55 60
	Asn Gly Lys Gln Lys Lys 65 70
25	
	(2) INFORMATION FOR SEQ ID NO: 648:
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 28 amino acids (B) TYPE: amino acid (D) TOPOLOGY: linear (xi) SEQUENCE LESCRIPTION: SEQ ID NO: 648:
35	Phe Thr Leu Asn Val Asn Gly Leu Asn Ala Pro Asn Glu Arg His Arg 1 5 10 15
40	Leu Ala Asn Trp Ile Gln Ser Gln Asp Gln Val Cys 20 25
	(2) INFORMATION FOR SEQ ID NO: 649:
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 17 amino acids (B) TYPE: amino acid (D) TOPOLOSY: linear
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 649: Thr His Leu Thr Gly Arg Asp Thr His Arg Leu Lys Ile Lys Gly Trp 1 5 10 15
55	Arg

(2) INFORMATION FOR SEQ ID NO: 650:

			(1)	SEQUE												
				(.	A) L	ENGT	H: 1	4 am	ino a	acid	5					
				()	B) T	YPE:	ami	no a	cid							
				(D) T	opot,	OGY :	lin	ear							
5			(xi)	SEQU	JENCI	E DE:	ŠCRI:	OITS	1: SE	EQ II	D NO	: 65	0 :			
	Gly	Trp	Arg	Lys	Ile	Tyr	Gln	Ala	Asn	Gly	Lys	Gln	Lys	Lys		
	1				5					10						
0																
-																
	1111	TMEC	HMAT	rion	FOR	SEO	ו מז	do - €	51							
	(,	1111		1101.	,,	DDV										
			(1)	SEQUI	ENCE	СНУ	RACT	EPT C	rics							
5			(L)				H: 5				c					
							ami			4011						
							.OGY :									
			Corn	SEÇI						EO 1	OM C	. 65	1 -			
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-10		ryr	nis	Leu	LITE	Ser	1:15	116	FIRE		111.5	FIIC	Lys	Arg		F 1
	1				_					10					15	
	C1	Mak	C	FIL.	T 1 .	ATT Lane	Mich	T 1.00	17-1	T1	uic	315	tri -	Cvic		*
	Cys	Mec	Cys		114	1111	Mec	FAR		116	mis	Ara	HIS	30	A MEL	Lys
25				20					25					3.0		
53							- 1	0.1	- 1	_	7.7. 1	T \1		(7)	m)	
	Leu	Arg	-	-	Xaa	Asn	Ala		110	Ser	Val	Pne		Thr	Thr	Leu
			3.5					40					45			
	er-1			~		m)										
30	Thr		Sex	Tyx	Pro	Thr										
50		50														
2.5	(2)	IMF	ORMA	TION	FOR	SEQ	ID	MO: 4	652:							
35																
			(i)	SEÇU												
							CH: 2			acio	is					
				(B) T	YPE:	ami	no a	cid							
				(D) T	IC4Oʻ	.OGY :	lın	ear							
40			(xi)	SEQ	UFNC	E DE	SCRI	PTIO	ท: ร	EQ I	D NO	: 65	2:			
	115	$T \vee T$	H13	Len	His	Ser	Trp	Il⊷	Phe	Phe	His	Ph∙	Lyn	Агэ	14.1	Ph∵
	1				5					10					15	
45	Cys	Mot	$=\gamma_3$	Phe	11.6	Thr	Met									
				20												
50	(2)	INF	ORMA	TION	FOR	SEQ	ID	NO:	653 :							
			(i)	SEQU	ENCE	CHA	RACI	ERIO	TICS	:						
				-				٠.,								
	1 5 5			14		j.,		a.	14.		. A: :	1.17		4	3. %	A.
										1	•	*- 2 '				
60	-														-	

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Gln Ile Ser Val Phe Cys Thr Thr Leu Thr Ala Ser Tyr Pro Thr
                  20
                            25
 5
      (2) INFORMATION FOR SEQ ID NO: 654:
             (1) SEQUENCE CHARACTERISTICS:
                   (A) LENGTH: 58 amino acids
10
                   (B) TYPE: amino acid
                   (D) TOPOLOGY: linear
             (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 654:
     Trp Asn Leu Leu Trp Tyr Phe Gln Arg Leu Arg Leu Pro Ser Ile Leu
15
                                        10
      Pro Gly Leu Val Leu Ala Ser Cys Asp Gly Pro Ser Kaa Ser Gln Ala
                                    25
20
     Pro Ser Pro Trp Leu Thr Pro Asp Pro Ala Ser Val Gln Val Arg Leu
                                 40
     Leu Trp Asp Val Leu Thr Pro Asp Pro Asn
                     55
         5.0
25
      (2) INFORMATION FOR SEQ ID NO: 655:
30
            (1) SEQUENCE CHARACTERISTICS:
                   (A) LENGTH: 54 amino acids
                   (B) TYPE: amino acid
                   (D) TOPCLOGY: linear
             (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 655:
35
     Glm Arg Gly Ile Tyr Arg Glu Ile Leu Phe Leu Thr Met Ala Ala Leu
                                         10
     Gly Lys Asp His Val Asp Ile Val Ala Phe Asp Lys Lys Tyr Lys Ser
40
                                     25
                                                    3.0
     Ala Phe Asn Lys Leu Ala Ser Ser Met Gly Lys Glu Glu Leu Arg His
                                 40
45
     Arg Arg Ala Gln Met Pro
        50
50
      (2) INFOFMATION FOR SEQ ID NO: 656:
             (i) SEQUENCE CHARACTERISTICS:
                   (A) LENGTH: 23 amino acids
                    (B) TYPE: amino acid
55
                   (D) TOPOLOGY: linear
             (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 656:
     Trp Asn Leu Leu Trp Tyr Phe Gln Arg Leu Arg Leu Pro Ser Ile Leu
                                  10
60
```

Pro Gly Leu Val Leu Ala Ser 20

5	(2)	INF	orma:	noin	FOR	SEQ	ID î	10: f	557:							
10			(i) .	(A) L B) T D) T	ENGT YPE: OPOL	H: 1 ami CGY:	91 a no a lin	mino cid ear	aci		: 65	7:			
15	Glu 1	Aup	Аф	Gly	Phe 5	Asn	Arq	Ser	Ile	His	€lu	Val	Ile	Lêu	Lys	Asn
	lle	Thr	Tru	Tyr 20	Ser	Glu	Arg	Val	Leu 25	Thr	Glu	He	Ser	Leu 30	Gly	Ser
20	Leu	Lou	11e 35	Leu	Val	Val	Ile	Arg 40	Thr	Ile	Gln	Tyr	Asn 45	Met	Thr	Arg
25	Thr	Arg 50	Asp	Lys	Ϋγτ	Leu	His 55	Thr	Asn	Cys	Leu	Ala 60	Ala	Leu	Ala	Asn
	Met 65	Ser	Ala	Gln	Phe	Arg 70	Ser	Leu	His	Gln	Tyr 75	Ala	Ala	Gln	Arq	11e 80
30	Ile	Ser	Len	Phe	Ser 85	Led	Leu	Ser	Lys	Lys 90	His	Asn	Lys	Val	Leu 95	Glu
	Gln	Ala	Thr	Gln 100	Jer	Leu	Arj	Gly	Ser 105	Leti	Ser	Ser	Asn	Asp 110	LE.V	Pro
35	Leu	Pro	Ang 115	Tyr	Ala	Gln	Asp	Leu 120	Asn	Val	Ile	Glu	Glu 125	Val	īle	Arg
40	Met	Met 130	Leu	Glu	ile	He	Asn 135	Ser	Cys	Leu	Thr	Asn 140	Ser	Leu	His	His
+0	Asn 145	Pro	Arn	Leu	Val	Туг 150	Ala	Leu	Leu	Tyr	Lys 155	Ara	Aap	Leu	Phe	Glu 160
45	Gln	Fhe	Arī	Thr	His 165	Pro	Ser	Fhe	Gln	Asp 170	Ile	Met	Sln	Asm	175 175	Asp

(2) INFORMATION FOR SEQ ID NO: 658:

50

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Leu Val Ile Ser Phe Phe Ser Ser Arg Leu Leu Gin Ala Gly Ser 180 185 195

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	1				5					10					15			
5	Ile	Thr	Trp	Тут 20	Ser	Glu	Arg	Val	Leu 25	Thr	Glu	Ile	Ser	Leu 30	Gly	Ser		
5	Leu	Leu	Ile 35	Leu	Val	Val												
10	(2)	INF	ORMA!	rion	FOR	SEQ	ID 1	NO: (659:									
15				(A) L B) T D) T	ENGT YPE : OPOL	H: 5 ami OGY:	3 am no a lin	ino cid ear	acid		: 65	9 :					
20	Arg 1	Thr	Ile	Gln	Tyr 5	Asn	Met	Thr	Arg	Thr 10	Arg	Asp	Lys	Tyr	Leu 15	His		
	Thr	Asn	Cys	Leu 20	Ala	Ala	Leu	Ala	Asn 25	Met	Ser	Ala	Gln	Phe 30	Arg	Ser		
25	Leu	His	Gln 35	Tyr	Ala	Ala	Gln	Arg 40	Ile	Ile	Ser	Leu	Phe 45	Ser	Leu	Leu		
30	Ser	Lys 50	Lys	His	Asn													
35	(2)		(i) :	SEQUI () ()	ENCE A) L B) T	CHAI ENGT YPE: OPOL	RACTI H: 5 ami OGY:	ERIS 6 am no a lin	TICS ino cid ear	acid		: 66	0:					
40	Ser 1	Cys	Leu	Thr	Asn 5	Ser	Leu	His	Hıs	Asn 10	Pro	Asn	Leu	Val	Tyr 15	Ala		
45	Leu	Leu	Tyr	Lys 20	Arg	Asp	Leu	Phe	Glu 25	Gln	Phe	Arg	Thr	His 30	Pro	Ser		
	Phe	Gln	Asp 35	Ile	Met	Gln	Asn	Ile 40	Asp	Leu	Val	lle	Ser 45	Phe	Phe	Ser		
50	Ser	Arg 50	Leu	Leu	Gln	Ala	Gly 55	Ser										
55	(2)	INFO	ORMAT	TION	FOR	SEQ	ID 1	NO: 6	561:									
			(i) :		A) L	ENGT	H: 3	ERIS' 1 am no a	ino .		s							
60				()	D) TY	OPOL	OGY:	lin	ear									

			(xi)	SEQ	UENC:	E DE	SCRI	PTI	N: S	EQ I	D NO	: 66	1:			
5	Lys 1	Lys	His	Asn	Lys 5	Val	Léu	Glu	Gln	Ala 10	Thr	Gln	Set	Leu	Ara 15	Gly
ي	Ser	Leu	Ser	Ser 20	Asn	qzA	Val	Pro	Leu 25	Pro	Asp	Tyr	Ala	31n 30	App	
10	(2)	INF	ORMAT	nota	FCR	SEO	ID 1	NO: (562 :							
						-										
15			(i) : (xi)	(A) L B) T D) T	ENGT YPE: OPOL	H: 1 ami OGY:	25 a no a lin	mino cid ear	aci		: 66	2 :			
										-				_		
20	met l	Ala	veb	119	6 9 10	inr	ιstu	AIG	БIA	10	Glii	خو ن ا	Gin	Pro	15	110
	Phe	Gln	Asn	Ly3 20	Lys	Уха	Val	Leu	Leu 25	Gly	Glu	Thr	Gly	Ly: 30	Glu	Lys
25	Leu	Pro	Arg 35	Val	Thr	Asn	Lys	Asn 40	Ile	Gly	Leu	Gly	Phe 45	Lys	Asp	Thr
30	Pro	Arg 50	Arg	Leu	Leu	Arg	Gly 55	Thr	Tyr	Ile	Asp	Lys 60	Lys	Суз	Pro	Phe
2/0	Thr 65	Gly	Asn	Val	Ser	Ile 70	Arg	Gly	Arg	Ile	Leu 75	Ser	Gly	Val	Val	Thr 80
35	Gln	Asp	Glu	Asp	Ala 85	Glu	Asp	Ніз	Cys	His 90	Pro	Pro	Arg	Leu	Ser 95	Ala
	Leu	His	Pro	Gln 100	Val	Gln	Pro	Leu	Arg 105	Glu	Ala	Pro	Gln	Glu 110	His	Val
40	Cys	Thr	Pro 115	Val	Pro	Leu	Leu	Gln 120	Gly	Arg	Pro	Asp	Arg 125			
45	(2)	INF(ORMA?	LICH	FOR	SEQ	to:	:: e	563:							
			(i).													
								9 am no a		acid	S					
50			(xi)					lin PTIC		eç tı	OM C	: 55	3 :			
									-							

60 His Deriver Pro Dys Phe Ard Asp Val Slm IIe Gry Asp IIe Val Thr 60

 $-i \delta_{\alpha} = -i \qquad \Delta = -i (-1) \alpha - \Delta$

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Wal Gly Glu Gys Arg Pro Leu Ser Dys Tor Wal Arg Rose Arm Wal Deu
 5
      Dys Val Thr Dys Ala Ala Gly Thr Dys Dys Glm She Gut Dys She
10
      (1 DEFORMATION FOR SEQ ID NO: 664:
             (i) SEQUENCE CHARACTERISTICS:
                    (A) LEWIH: 30 amino acids
                    (B) TFPE: amino acid
15
                   (D) TOPOLOGY: linear
              94) SEQUENCE DESCRIPTION: SEQ ID NO: 664:
     Met Als Asp Ile Oln Thr Glu Arg Ala Tyr Sln Iys Sin Fry Thr cla
1 5 15
20
      Phe Glin Ash Dys Lys Arg Val Let Let Gly Glu thr Gly Lys
25
     (C DECEMPATION FOR SEQ ID NO: 665:
              . SDOUBLOB GREACTERISTICS:
                   (A) LENGIH: 58 amino acids
30
                    (3, TPPE: amino acid
                   (D) TOPOLOGY: limear
             (ML) SEQUENCE DESCRIPTION: SEQ ID NO: 668:
      lys let im amp val Thr Amm Lys Amm ite Bly Let Bly Bne Lyb Amp
35
      The Pape Acts Acts Lew Lew Acts Giv The Tyre Ile Acts Lys Lys Sys Sat
20
40
      Rhe Thr Gly Ash Val Ser Ile Arg Gly Arg Ile Leu Ser Gly Val Val
      Thr Gln Asp Glu Asp Ala Glu Asp His Cys
          = 0
45
      (2) DIFOFMATION FOR SEQ ID NO: 666:
50
            (i) SEQUENCE CHARACTERISTICS:
                   (A) LENGTH: 38 amino acids
                    (B) TYPE: amino acid
                   (D) TOPOLOGY: linear
             (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 666:
55
     His Cys Ris Pro Pro Arg Leu Ser Ala Leu His Pro Glm Val Gun Pro (1997) (1997)
      Leu Arg Glu Ala Pro Glm Glu His Wal Cys Thr Pro Wal Pro Leu Leu
60
         20 25 31
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Gln Gly Arg Pro Asp Arg
                                          35
   5
                  (1) INFORMATION FOR SEQ ID NO: 667:
                                        (i) SEQUENCE CHARACTERISTICS:
10
                                                          (A) LENGTH: 36 amino acids
                                                             (B) TYPE: amino acid
                                                             (D) TOPOLOGY: linear
                                        (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 667:
15
                  Met Lys Met Gln Arg Thr The Val The Arg Arg Asp Tyr Leu His Tyr
                                                                                                     10
                  Ile Arg Lys Tyr Ash Arg Phe Glu Lys Arg His Lys Ash Met Ser Val
20
                 His Leu Ser Pro
25
                 (2) INFORMATION FOR SEQ ID NO: 668:
                                        (i) SEQUENCE CHARACTERISTICS:
                                                           (A) LENGTH: 43 amino acids
30
                                                             (B) TYPE: amino acid
                                                             (D) TO-POLOGY: linear
                                        (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 668:
                 Cys Phe Arg Asp Val Gln Ile Gly Asp Ile Val Thr Val Gly Glu Cys
35
                  Arg Pro Leu Ser Lys Thr Val Arg Phe Asn Val Leu Lys Val Thr Lys
                                                                                                                  25
40
                 Ala Ala Gly Thr Lys Lys Gln Phe Gln Lys Phe
45
                (2) INFORMATION FOR SEQ ID NO: 669:
                                        (i) SEQUENCE CHARACTERISTICS:
                                                            (A) LENGTH: 33 amino acids
                                                             (B) TYPE: amino acid
50
                                                            (D) TOPOLOGY: linear
                                       (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 669:
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5	(2)	INF	ORMA!	LICN	FOR	SEQ	ID	NO:	670 :							
Ý			(i) .	(A) L B) T	ENGT YPE :	H: 6	0 am no a	nino cid	: acid	S					
10			(xi)	SEQI		OPOL E DE				EQ I	ON D	: 67	0:			
	lle 1	Phe	Tyr	Asp	Ser 5	Asp	Trp	Asn	Pro	Thr 10	Val	Asp	Gln	Gln	Ala 15	Met
15	Asp	Arg	Ala	His 20	Arg	Leu	Gly	Gln	Thr 25	Lys	Gln	Val	Thr	Val 30	Tyr	Arg
20	Leu	Ile	Cys 35	Lys	Gly	Thr	Ile	Glu 40	Glu	Arg	Ile	Leu	Gln 45	Arg	Ala	Lys
	Glu	Lys 50	Ser	Glu	Ile	Gln	Arg 55	Met	Val	Ile	Ser	Gly 60				
25	(2)	INFO	OR MA T	ricu	FOR	SEQ	ID I	NO:	671:							
30				(A) L B) T D) T	ENGT YPE: OPOL	H: 6 ami CGY:	7 am no a lin	ino cid ear	acid		: 67	1:			
35	Thr 1	Arg	Met	Ile	Asp 5	Leu	Leu	Glu	Glu	Tyr 10	Met	Val	Tyr	Arg	Lys 15	His
	Thr	Tyr	Xaa	Arg 20	Leu	Asp	GĮy	Ser	Ser 25	Lys	Ile	Ser	Glu	Arg 30	Arg	Asp
10	Met	Val	Ala 35	Asp	Phe	Gln	Asn	Arg 40	Asn	Asp	Ile	Phe	Val 45	Phe	Leu	Leu
1 5	Ser	Thr 50	Arg	Ala	Gly	Gly	Leu 55	Gly	Ile	Asn	Leu	Thr 60	Ala	Xaa	Asp	Thr
	Val 65	His	Phe													
50	(2)	INFO	or ma t	rich	FOR	SEQ	ID I		672:							
55			(i) :		A) L		н: 3	2 am	ino	: acid	s					
			(xi)) SEQT		OPOL E DE				EQ I	D NO	: 67:	2:			
60	Ile 1	Phe	Tyr	Asp	Ser 5	Asp	Trp	Asn	Pro	Thr	Val	Asp	Gln	Gln	Ala 15	Met

Asp Arg Ala His Arg Leu Gly Gln Thr Lys Gln Val Thr Val Tyr Arg 25 5 10 (2) INFORMATION FOR SEQ ID NO: 673: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 31 amino acids (B) TYPE: amino acid 15 (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 673: Val Tyr Arg Leu Ile Cys Lys 3ly Thr Ile Glu Glu Arg Ile Leu Gln 20 Arg Ala Lys Glu Lys Ser Glu Ile Gln Arg Met Val Ile Ser Gly 25 25 (2) INFORMATION FOR SEQ ID NO: 674: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 33 amino acids 30 (B) TYPE: amino acid (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 674: Thr Arg Met Ile Asp Leu Leu Glu Glu Tyr Met Val Tyr Arg Lys His 35 10 Thr Tyr Xaa Arg Leu Asp Gly Ser Ser Lys Ile Ser Glu Arg Arg Asp 25 20 40 Met 45 (2) INFORMATION FOR SEQ ID NO: 675: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 38 amino acids (B) TYPE: amino acid 50 (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 675:

- Xaa Asp Thr Val His Phy

60

Note that the second

5	(2) INFORMATION FOR SEQ ID NO: 676:
	(i) SECUENCE CHARACTERISTICS: (A) LENGTH: 37 amino acids (B) TYPE: amino acid (D) TOPCLOGY: linear
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 676:
	Ile Phe Tyr Asp Ser Asp Trp Asn Pro Thr Val Asp Gln Gln Ala Met 1 5 10 15
15	Asp Arg Ala His Arg Leu Gly Gln Thr Lys Gln Val Thr Val Tyr Arg
20	Leu Ile Cys Lys Gly 35
	(2) INFORMATION FOR SEQ ID NO: 677:
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 37 amino acids (B) TYPE: amino acid (D) TOPOLCGY: linear
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 677:
	Ile Phe Tyr Asp Ser Asp Trp Asn Pro Thr Val Asp Gln Gln Ala Met 1 10 15
35	Asp Arg Ala His Arg Leu Gly Gln Thr Lys Gln Val Thr Val Tyr Arg
40	Leu Ile Cys Lys Gly 35
	(2) INFORMATION FOR SEQ ID NO: 678:
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 29 amino acids (B) TYPE: amino acid (D) TOPOLCGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 678:
50	Arg Leu Ile Cys Lys Gly Thr Ile Glu Glu Arg Ile Leu Gln Arg Ala 1 5 10 15
55	Lys Glu Lys Ser Glu Ile Gln Arg Met Val Ile Ser Gly 20 25
	(2) INFORMATION FOR SEQ ID NO: 679:
60	
60	(i) SEQUENCE CHAFACTERISTICS:

-			(×1)	(B) T D) T	YPE: OPOL	ami: CGY:	no a lin	ear			: 67	9 :			
5	Mot 1	Ser	Leu	His	Gly 5	Lys	Arg	Lys	Glu	Ile 10	Tyrr	Lys	Tyr	Slu	Ala 15	Pro
10	Trp	Thr	Val	Tyr 20	Ala	Met	Asn	T'rp	Ser 25	Val	Arg	Pro	Asp	Lys 30	Arg	Phe
	Arg	Leu	Ala 35	Leu	Gly	Sur	Phe	Val 40	Glu	Glu	Тут	Asn	Asn 45	Lys	Val	Gln
15	Leu	Val 50	Gly	Leu	Asp	Blu	G1u 55	Ser	Ser	Glu	Phe	11e 60	Суз	Arg	Asn	Thr
20	Phe 65	Asp	His	Pro	Ί'nς	Pro 70	Thr	Th.r	Lys	Leu	Met 75	Trp	Ile	Pro	Asp	Thr 80
	Lys	Gly	Val	Tyr	Pro 85	Asp	Leu	Lou	Ala	Thr 90	Ser	Gly	Asp	Τγτ	Leu 95	Arg
25	Val	Trp	Arg	Val 100	Gly	Glu	Thr	Glu	Thr 105	Arg	Leu	Glu	Cys	Leu 110	Leu	Asn
	Asn	Asn	Lys 115	Asn	Ser	Asp	Phe	Cys 120	Ala	Pro	Leu	Thr	Ser 125	Phe	Asp	Trp
30	Asn	Glu 130	Val	Asp	Pro	Tyr	Leu 135	Leu	Gly	Thr	Ser	Ser 140	Ile	Asp	Thr	Thr
35	Cys 145	Thr	Ile	Trp	Gly	Leu 150	Glu	Thr	Gly	Gln	Val 155	Leu	Gly	Arg	Val	Asn 160
	Leu	Val	Ser	Gly	His 165	Val	Lys	Thr	Gln	Leu 170	Ile	Ala	His	Asp	Lys 175	Glu
40	Val	Tyr	Asp	Ile 180	Ala	Phe	Ser	Arg	Ala 185	Gly	Gly	Зlу	Arg	Asp 190	Met	Phe
	Ala	Ser	Val 195	Sly	Ala	Азр	Gly	Ser 200	Val	Arg	Mer	Phe	Asp 205	I.éu	Arg	His
45	Leu	Glu 210	His	Ser	Thr	Ile	Ile 215	Tyr	Glu	узр	Pro	Gln 223	His	His	Pro	Leu
50	Leu 225	Arg	Leu	Cys	Trp	Asn 230	Lys	Gln	Asp	Pro	Asn 235	Tyr	Leu	Ala	Thr	Met 240
	Ala	Met	Asp	Gly	Met. 245	#lu	Val	Val	Ile	L⊬u 250	Asp	Val	Arg	Val	Pro 255	Ala
													1-1			

60 Sirida sa Sirida da su per de la la la la Arriba

		290					295					300						
5	Leu 305	Ser	Trp	Pro	Thr	Gln 310	Leu	Xaa	Gly	Glu	Ile 315	Asn	Asn	Val	Gln	Trp 320		
5	Ala	Ser	Thr	Gln	Pro 325	Glu	Leu	Ser	Pro	Ser 330	Ala	Thr	Thr	Thr	Ala 335	-		
10	Arg	Tyr	Ser	Glu 340	Cys	Ser	Val	Gly	Gly 345	Ala	Val	Pro	Thr	Arg 350	Gln	Gly		
	Leu	L≏u	Туг 355	Phe	Leu	Pro	Leu	Pro 360	His	Pro	Gln	Ser						
15																		
	(2)	INF(ORMA	LION	FOR	SEQ	ID I	NO:	630:									
20				(A) L B) T D) T	ENGT YPE: OPOL	H: 1 ami OGY:	36 a no a lin		aci		: 68	0:					
25	Met 1								Glu					Glu	Ala 15	Pro		
30	Trp	Thr	Val	Туг 20	Ala	Met	Asn	Trp	Ser 25	Val	Arg	Pro	Asp	Lys 30	Arg	Phe		
	Arg	Leu	Ala 35	Leu	Gly	Ser	Phe	Val 40	Glu	Glu	Tyr	Asn	Asn 45	Lys	Val	Gln		
35	Leu	Väl 50	Gly	Leu	Asp	Glu	Glu 55	Ser	Ser	Glu	Phe	Ile 60	Cys	Arg	Asn	Thr		
	Phe 65	Asp	His	Pro	Tyr	Pro 70	Thr	Thr	Lys	Leu	Met 75	Trp	Ile	Pro	Asp	Thr 80		
40	Lys	Gly	Val	Tyr	Pro 85	Asp	Leu	Leu	Ala	Thr 90	Ser	Gly	qzA	Tyr	Leu 95	Arg		
45	Val	Trp	Arg	Val 100	Gly	Glu	Thr	Glu	Thr 105	Arg	Leu	Glu	Cys	Leu 110	Leu	Asn		
	Asn	Asn	Lys 115	Asn	Ser	Asp	Phe	Cys 120	Ala	Pro	Leu	Thr	Ser 125	Phe	Asp	Trp		
50	Asn	Glu 130	Val	Asp	Pro	Tyr	Leu 135	Leu										
55	(2)			SEQUE	ENCE		RACTI	ERIS	581: FICS: mino		ds							-
60			(xi)	(1) T	YPE: OPOLA E DES	OGY :	lin		EQ II	ON C	: 681	l:					

ist, the second of the second

	Ser 1	Ph⊕	Asp	Trp	Asn 5	Glu	Val	Asp	Pro	Tyr 10	Leu	Leu	Jly	Thr	Ser 15	Ser
5	Ile	Asp	Thr	Thr 20	Cys	Thr	He	Trp	Gly 25	Leu	Glu	Thr	Gly	Gln 30	Val	Lēu
10	Gly	Arg	Val 35	Asn	Leu	Val	Ser	Gly 40	His	Val	Lys	Thr	Gln 45	Leu	Ile	Ala
	Hıs	Аэр 50	Lys	Glu	Val	Tyr	Asp 55	He	Ala	Phe	Ser	Arg 60	Ala	Gly	Gly	Gly
15	Arg 65	qaA	Met	Phe	Ala	Ser 70	Val	Gly	Ala	Asp	31y 75	Ser	Val	Arg	Met	Phe 80
	qnA	Leu	Arg	His	Leu 85	Glu	His	Ser	Thr	11e 90	Ile	Tyr	Glu	Asp	Pro 95	Gln
20	His	His	Pro	Leu 100	Leu	Arg	Let.	Cys	Trp 105	Asn	Lys	Gln	Asp	Pro 110	Asn	Tyr
25	Leu	Ala	Thr 115	Met	Ala	Met	Asp-	Gly 120	Met	Glu	Val	Val	11e 125	Leu	Asp	Val
	Arg	Val 130	Pro	Ala	His	Leu	Xaa 135	Pro	Gly	Thr	Thr	11e 140				
30	(2)	TNUC	~ ~													
	(2)	IMP)KMA'I	LTON	FOR	SEQ	ID I	40: 6	582 :							
35	(2));;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;	EEÇU))))	ENCE A) L B) T D) T	CHAI ENGT YPE: CPOL	RACT: H: 1 ami OGY:	ERIS 70 a no a lin	rics mino cid ear	aci		: 68:	2:			
35 40			(ž) :	SEÇUI))) (SEQI	ENCE A) L B) T D) T UENC	CHAI ENGT YPE: CPOL E DE:	RACT H: 1 ami OGY: SCRI	ERIS 70 a no a lin PTIC	rics mino cid ear N: S	aci EQ II	D NO			His	Leu 15	Glu
	Val.	Gly	(i) :	SEÇU))) SEÇI Asp	ENCE A) L B) T D) T UENC: Gly 5	CHAJ ENGT YPE: CPOL E DE: Ser	RACT: H: 1 ami OGY: SCRI Val	ERIS 70 a no a lin PTIC Arg	rics mino cid ear N: S Met	aci EQ II Phe 10	D NO Asp	Leu	Arg		15	
	Val I His	Gly	(i) : (xi) Ala	SEÇUN (((SEÇV Asp 114	ENCE A) L B) T D) T UENC: Gly 5	CHAI ENGT YPE: CPOL E DE: Ser	RACT: H: 1 ami OGY: SCRI Val	ERIST 70 au no a line PTICT Arg	rics mino cid ear N: SI Met	aci EQ II Phe 10 Gln	D NO Asp His	Leu	Arg Pro	Leu 30	15 Leu	Arq
40 45	Val 1 His	Gly Ser Cys	(i) : (xi) Ala Thr	SEÇUI (((SEÇI Asp 11+ 20	ENCE A) L B) T D) T UENC: Gly 5 Ile Lys	CHAI ENGT YPE: CPOL E DE: Ser Tyr	RACT: H: 1 ami OGY: SCRI Val Glu Asp	ERIS' 70 au no a lin HTICH Arg Asp	Pro 25	aci EQ II Phe 10 Gln	D NO Asp His Leu	Leu His Ala	Arg Pro Thr 45	Leu 30 Mot	15 Leu Ala	Ard Met
40	Val 1 His Leu	Gly Cys Gly 50	(i) : (xi) Ala Thr Trp 35	SEQUENCE (((() () () () () () () ()	ENCE A) L B) T D) T UENC Gly 5 Ile Lys	CHAI ENGT YPE: CPOL E DE. Ser Tyr Cin	RACT: H: 1 ami OGY: SCRI Val Glu Asp	ERIS' 70 as no a lin Prict Arg Asp Pro 40	rics mino cid ear N: S Met Pro 25 Asn	aci EQ II Phe 10 Gln Tyr	D NO Asp His Leu Arg	Leu His Ala Val	Arg Pro Thr 45 Pro	Leu 30 Mot Ala	15 Lou Ala His	Arq Met Leu
40 45	Val 1 His Leu Asp Xaa 65	Gly Cys Gly 50 Pro	(i) : (xi) Ala Thr Trp 35	SEQUENCE (((((SEQUENCE) SEQUENCE) () () () () () () () () ()	ENCE A) L B) T D) T UENC Gly 5 Ile Lys Val	CHAI ENGT YPE: CPOL E DE. Ser Tyr Cin Val	RACT: H: 1 ami OGY: SCRI Val Glu Asp Ile 55	ERIS' 70 as no a lin Prict Arg Asp Pro 40 Leu His	Property Asp	aci EQ I: Phe 10 Gln Tyr Val	D NO Asp His Leu Arg Met 75	Leu His Ala Val 60 Ala	Arg Pro Thr 45 Pro	Leu 30 Mot Ala Leu	15 Leu Ala His	Ard Met Leu Pro 30

			115					120					125			
5	Thr	Gln 130		Glu	Leu	Ser	Pro 135		Ala	Thr	Thr	Thr	Ala	Trp	Arg	Tyr
J	Ser 145		Cys	Ser	Val	Gly 150		Ala	Val	Pro	Thr 155		Gln	Gly	Leu	Leu 160
10	Tyr	Phe	Leu	Pro	Leu 165	Pro	His	Pro	Gln	Ser 170						
15	(2)	INF		MOIT UÇE2)		СНА	RACT	ERIS	TIC3		de					
20			(xi)	(B) T	YPE: OPOL	ami OGY:	no a lin	cid ear			: 68	3:			
	Leu 1		Ala	Thr	Ala 5	Thr	Val	Ile	Ser	Ser 10	Pro	Ser	Thr	Glu	Xaa 15	Leu
25	Ser	Gln	Asp	Gln 20	Gly	Asp	Arg	Ala	Ser 25	Leu	Asp	Ala	Ala	Asp 30	Ser	Gly
30	Arg	Gly	Ser 35	Trp	Thr	Ser	Cys	Ser 40	Ser	Gly	Ser	His	Asp 45	Asn	Ile	Gln
	Thr	Ile 50	Gln	Hıs	Gln	Arg	Ser 55	Trp	Glu	Thr	Leu	Pro 60	Phe	Gly	His	Thr
35	His 65	Phe	Asp	Tyr	Ser	Gly 70	Asp	Pro	Ala	Gly	Leu 75	Trp	Ala	Ser	Ser	Ser 80
	His	Met	Asp	Gln	Ile 85	Met	Pḥe	Ser	Asp	His 90	Ser	Thr	Lys	Tyr	Asn 95	Arg
40	Gln	Asn	Gln	Ser 100	Arg	Glu	Ser	Leu	Glu 105	Gln	Ala	Gln	Ser	Arg 110	Ala	Ser
45	Trp	Ala	Ser 115	Ser	Thr	Gly	Tyr	Trp 120	Gly	Glu	Asp	Ser	Glu 125	Gly	Asp	Thr
	Gly	Thr 130	Ile	Lys	Arg	Arg	Gly 135	Gly	Lys	Asp	Val	Ser 140	Ile	Glu	Ala	Glu
50	Ser 145	Ser	Ser	Leu	Thr	Ser 150	Val	Thr	Thr	Glu	Glu 155	Thr	Lys	Pro	Val	Pro 160
	Met	Pro	Ala	His	Ile 165	Ala	Val	Ala	Ser	Ser 170	Thr	Thr	Lys	Gly	Leu 175	Ile
55	Ala	Arg	Lys	Glu 180	Gly	Arg	Τγτ	Arg	Glu 185	Pro	Pro	Pro	Thr	Pro 190	Pro	Gly
60	Tyr	Ile	Gly 195	Ile	Pro	Ile	Thr	Asp 200	Phe	Pro	Glu	Gly	His 205	Ser	His	Pro

	Ala	Arg 210	Lys	Pro	Pro	Asp	Tyr 315	aca	Va1	Ala	Leu	Gln 220	Arg	Ser	Arg	Met
5	Val 225	Ala	Arg	Ser	Ser	Asp 230	Thr	Ala	Gly	Pro	Ser 235	Ser	Val	Gln	Gln	Pro 240
	His	Gly	Ніз	Pro	Thr 245	Ser	Ser	Arg	Pro	Val 250	Asn	Lys	Pro	Gln	Trp 255	His
10	Lys	Xaa	Asn	Glu 260	Ser	Asp	Pro	Arg	Leu 265	Ala	Pro	Tyr	Gln	Ser 270	Gln	Gly
15	Phe	Ser	Thr 275	Glu	Glu	Asp	Glu	Asp 280	Glu	Gln	Val	Ser	Ala 285	Val		
	(?)	INF	DEMAT	rion	FCR	SEQ	ID 1	10: 6	534:							
20				(A) L B) T C) T	ENGT YPE: OPOL	H: 4 ami OGY:	2 am no a lin	ino . cid ear	acid						
25	uic			SEQU										Th. 120) an	3
	1	rist	Nab	Gln	5	riere	File	Ser	АБР	10	261	1111	PAS	IÀT	15	Arg
30	Gln	Asn	Gln	Ser 20	Arg	Glu	Ser	Leu	Glu 25	Gln	Ala	Gln	Ser	Arg 30	Ala	Ser
35	Trp	Ala	76± 35	Ser	Thr	Gly	Tyr	Trp 40	Gly	Glu						
	(2)	INF	OFMA	rian	FOR	SEQ	ID 1	1 0: (585:							
40				ţ	A) L B) T D) T	ENGT YPE: OPOL	H: 5 ami CGY:	l am no a lin	ino cid ear	acid		: 68	5 :			
45	Ser 1	Val	Thr	Thr	GIu: 5	Glu	Thr	Lys	Pro	Val	Pro	Met	Pro	Ala	His	Ile
50	Ala	Val	Ala	Ser 20	Ser	Thr	Thr	Lys	31y 25	Leu	Ile	Ala	Arg	Lys 30	Glu	Gly
- \	Arg	Tyr	Arg 35	Glu	Pro	Pro	Pro	Thr 40	Pro	Pro	gly	Tyr	1le 45	Gly	Ile	Pro

	(1) SEQUENCE CHAPACTERISTICS:
	(A. LEXTH: 57 amino acids
	(B, TYPE: amino apid
-	(C. TOPCLOGY: linear
5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 686:
	Val Ala Leu Glm Arg Ser Arg Met Val Ala Arg Ser Ser Asp Thr Ala
	1 5 10 15
	•
10	Gly Pro Ser Ser Val Glm 3lm Pro His Gly His Pro Thr Ser Ser Arg
	20 35 30
	Pro Val Ash Lys Pro Gln Trp His Lys Kaa Ash Glu Ser Asp Pro Arg
	35 40 45
15	
	lew Ala Pro Tyr Gin Ser Gln Gly Phe
	55
20	
	(2) INFORMATION FOR SEQ ID NO: 687:
	-
	(i) SEQUENCE CHAPACTERISTICS:
25	(A) LENGTH: 41 amino acids
اب ش	(B) TYPE: amino acid (D) TOPOLOGY: linear
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 687:
	USQUERUS SEEGUES 125.11. USQ ES 110. UUV.
2.6	Cys Leu Leu Phe Val Phe Val Ser Leu Gly Met Arg Cys Leu Phe Trp
30	1 5 10 15
	Thr The Val Tyr Ach Val Leu Tyr Leu Lys His Lys Cys Ash Thr Val 20 25 30
	23 23
35	Leu Lau Cys Tym His Leu Cys Sam Ile
	35
40	(3) DUFORMATION FOR SEQ ID NO: 688:
	(i) SEQUENCE CHRRACTERISTICS:
	(A) LENGTH: 67 amino acids
45	(B) TYPE: amino acid
7	(D) TOPCLOGY: linear (M1) SEQUENCE DESCRIPTION: SEQ ID NO: 688:
	(MA) SEQUENCE DESCRIPTION. SEQ ID MO: GOO:
	Ala Cys Ser Lys Leu Ile Pro Ala Phe Glu Met Val Met Arg Ala Lys
50	1 5 10 15
50	
	Asp Asn Val Tyr His Leu Asp Cys Phe Ala Cys Gln Leu Cys Asn Gln
	20 25 30
	Arg Xaa Cys Val Gly Asp Lys Phe Phe Leu Lys Ash Ash Xaa Xaa Leu
55	35 40 45
	Cys Gln Thr Asp Tyr Glu Glu Gly Leu Met Lys Glu Gly Tyr Ala Pro
	50 55 60
60	
60	Xaa Val Arg

5	(2) INFORMATION FOR SEQ ID NO: 689:
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 45 amino acids (B) TYPE: amino acid (D) TOPULOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 689:
	Ser Ala Leu Ser Glu Pro Gly Ala Pro Asp Arg Arg Pro Cys Pro 1 5 10 15
15	Glu Ser Val Pro Arg Arg Pro Asp Asp Glu Gln Trp Pro Pro Pro Thi
20	Ala Leu Cys Leu Asp Val Ala Pro Leu Pro Pro Ser Ser 35 40 45
	(2) INFORMATION FOR SEQ ID NO: 690:
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 43 amino acids
30	(B) TYPE: amino acid (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 690:
	Pro Val Gly Tyr Leu Asp Lys Sin Val Pro Asp Thr Ser Val Gin Gh 1 5 10 15
35	Thr App Arg Ile Leu Val Glu Dys Arg Cys Trp App Ile Ala Leu Gly 20 25 30
10	Pro Leu Dys Gln Ile Fro Met Abn Leu Phe Ile 35 40
	(3) INFORMATION FOR SEQ ID NO: 691:
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 214 amino acids (B) TYPE: amino acid (D) TOPOLOGY: linear
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 691:
	Ala Hio Ala Ser Glu Ser Gly Glu Arg Trp Trp Ala Cys Cys Gly Vai
	And the state of the state of the Analysis And the Analysis and the Analysis Analysi
1 .	

		50					5.5					60				
5	Arg 65		ser	Gly	Gln	Gly 70	Asp	Ser	Leu	Tyr	Pro 75	Val	Gly	Tyr	Leu	qaA 08
~	Lys	Gln	Val	Pro	Asp 85	Thr	Ser	Val	Gln	Glu 90	Thr	Asp	Arg	Ile	Leu 95	Val
0	Glu	Lys	Arg	Суз 100	Trp	Asp	Ile	Ala	Leu 105	Gly	Pro	Leu	Lys	Gln 110	Ile	Pro
	Met	Asn	Leu 115	Phie	Ile	Met	Τγτ	Met 120	Ala	Gly	Asn	Thr	Ile 125	Ser	Ile	Phe
5	Pro	Thr 130	Met	Met	Val	Cys	Met 135	Met	Ala	Trp	Arg	Pro 140	Ile	Gln	Ala	Leu
()	Met 145	Ala	Ile	Ser	λla	Thr 150	Pt.e	Lys	Met	Leu	Glu 155	Ser	Ser	Ser	Gln	Lys 160
	Phe	Leu	Gln	Sly	Leu 165	Val	Τγτ	Leu	Ile	Gly 170	Asn	Leu	Met	Gly	Leu 175	Ala
5	Leu	Ala	Val	Тут 180	Lys	Cys	Gln	Ser	Met 185	Gly	Leu	Lēu	Pro	Thr 190	His	Ala
0			195	Leu			Ile	Glu 200	Pro	Pro	Glu	Arq	Met 205	Glu	Phe	Ser
0	Gly	Gly 210	Gly	Leu	Leu	Leu										
5	(2)	INF	OPMAT	ricn	FOR	SEQ	ID 1	VO: 6	592:							
			(i) :		ENCE A) L B) T	ENGT	H: 4	бaum	ino		s					
)			(xi)		D) T	CPOL	OGY :	lin	ear	EQ II	D NO	: 69.	2 :			
5	Ala 1	Thr	Phe	Lys	Met 5			Ser				Lys	Phe	Leu	Gln 15	
	Leu	Val	Tyr	Leu 20	Ile	Gly	Asn	Leu	Met 25	Gly	Leu	Ala	Leu	Ala 30	Val	Tyr
0	Lys	Cys	Gln 35	Ser	Met	Gly	Leu	Leu 40	Pro	Thr	His	Ala	Ser 45	Asp		
	(2)	INFO	ormat	rion	FOR	SEQ	ID 1	NO: 6	593:							
5				SEQUI		CHAI	RACT!	ERIS	rics		s					
0			(~i)		B) T D) T	OPCL	OGY:	lin	ear	FO 7	- N/C		3 .			

	Pro 1	Val	Gly	Тут	Leu 5	Asp	Lys	Gln	Val	Pro 10	Asp	Thr	Ser	Val	Gln 15	Glu
5	Thr	Asp	Arg	11e 20	Leu	Val	Glu	Lys	Arg 25	Cys	Trp	Азр	Ile	Ala 30	Leu	Gly
10	Pro	Leu	Lys 35	Gln	Ile	Pro	Met	Asn 40	Leu	Phe	Ile					
15 20	(2)		·i) .	SEQUI)) (ENCE A) L B) T D) T	CHAI EINGT YPL : OPCIL	RACTI H: 4 ami OGY:	no a lin	rics ino cid ear	: acid EQ II		: 69	4 :			
	Pro 1	Thr	Thr	Lys	Leu 5	Asp	Ile	Met	Glu	Lys 10	Lys	Lys	Ніз	Ile	Gln 15	Ile
25	Arg	Phe	Pro	Ser 20	Phe	Tyr	His	Lys	Leu 25	Val	Asp	Ser	Gly	Arg 30	Met	Arg
30	Ser	Lys	Arg 35	Glu	Thr	Arg	Arg	Glu 40	Asp	Ser	Asp	Thr	Lys 45	His	Asn	Leu
35	(2)	INFO														
40				(A) L B) T D) T	ENGT YPE : OPOL	H: 1 ami CGY:	no a lin	mino cid ear	: aci EQ I		: 69	5 :			
45	Thr 1	Glu	Ніз	Ile	Ile 5	Ala	Val	Met	Ile	Thr 10	3lu	Leu	Arg	Gly	Lys 15	Asp
	Ile	Leu	Ser	T5T 20	Leu	Jlu	Lys	Asn	11- 25	Ser	Val	Gln	Met	Thr 30	lie	Ala
50	Val	Gly		Arg	Met	Pro	Pro	Lys 4 0	Asn	Phe	Ser	Arg	Gly 45	Ser	Leu	Val
			35													
	Phe	Val		Tle	Ser	Phe	Ile	Verl	Leu	Met	î.e	lle	Sor	Ser	Ala	Trp

	Leu	Thr	Thr	Arg 100		Val	Lys	Lys	Gly 105		Lys	Glu	Thr	Asp 110	Pro	Asp
5	Phe	Asp	His 115		Ala	Val	Cys	Ile 120		Ser	Tyr	Lys	Gln 125	Asn	Asp	Val
	Val	Arg 130		Leu	Pro	Cys	Lys 135	His	Val	Phe	His	Lys 140	Ser	Cys	Val	Asp
10	Pro 145	Trp	Leu	Ser	Glu	His 150	Cys	Thr	Cys	Pro	Met 155		Lys	Leu	Asn	Ile 150
15	Leu	Lys	Ala	Leu	Gly 165	Ile	Val									
	(2)	INF	O RMA '	TION	FOR	SEQ	ID	N O :	696:							
20				(A) L B) T D) T	ENGT YPE: OPOL	H: 2 ami OGY:	76 a no a lin	umino scid sear	aci		. 69	6.			
25	Met 1	Thr												Ile	Thr 15	Glu
30	Leu	Arg	Gly	Lys 20	Asp	Ile	Leu	Ser	Tyr 25	Leu	Glu	Lys	Asn	Ile 30	Ser	Val
	Gln	Met	Thr 35	Ile	Ala	Val	Gly	Thr	Arg	Met	Pro	Pro	Lys 45	Asn	Phe	Ser
35	Arg	Gly 50	Ser	Leu	Val	Phe	Val 55	Ser	Ile	Ser	Phe	Ile 60	Val	Leu	Met	Ile
10	Ile 65	Ser	Ser	Ala	Trp	Leu 70	Ile	Phe	Tyr	Phe	Ile 75	Gln	Lys	Ile	Arg	Tyr 80
	Thr	Asn	Ala	Arg	Asp 85	Arg	Asn	Gln	Arg	Arg 90	Leu	Gly	Asp	Ala	Ala 95	Lys
15	Lys	Ala	Ile	Ser 100	Lys	Leu	Thr	Thr	Arg 105	Thr	Val	Lys	Lys	Gly 110	Asp	Lys
- 0	Glu	Thr	Asp 115	Pro	Asp	Phe	Asp	His 120	Cys	Ala	Val	Суѕ	11e 125	Glu	Ser	Tyr
50		Gln 130					135					140				
55	145	Ser				150					155					160
		Lys			165					170					175	
60	Cys	Thr	Asp	Asn	Val	Ala	Phe	Asp	Met	Glu	Arg	Leu	Thr	Arg	Thr	Gln

	λla	Val	Asn 195	Arg	Arg	Ser	Ala	Leu 200	Gly	qaA	Leu	Alā	Gly 205	Asp	Asn	Ser
5	Leu	Gly 210	Leu	Glu	Pro	Leu	Arg 215	Thr	Ser	Gly	Ile	Ser 220	Pro	Leu	Pro	Gln
10	Asp 225	Gly	Glu	Leu	Thr	Pro 230	Arg	Thr	Gly	Glu	Ile 235	Aon	Ile	Ala	Val	Thr 240
	Lys	Glu	Trp	Phe	Ile 245	He	Ala	Ser	Phe	Gly 250	Leu	Leu	Ser	Ala	Leu 255	Thr
15	Leu	Cys	T_I T	Met 250	Ile	Hé	Arg	Ala	Thr 265	Ala	Şer	Len	Asn	Ala 270	Asn	Glu
20	Val	Glu	Trp 275	Phe												
20	(2)	INF	ORMA'.	rion	FOR	SEQ	ID 1	vo: (597:							
25			(i)	SEÇUI (ENCE A) L B) T D) T	CHAI ENGT YPE: CPOL	RACT: H: 6 ami OGY:	ERIS 9 am no a lin	rics ino cid ear	acid		: 691	7 :			
30	Thr 1	Glu	His	Ile	Ile 5	Ala	Val	Met	Ile	Thr 10	Glu	Leu	Arg	Ġly	Lys 15	Asp
35	Ile	Leu	Ser	Туг 20	Leu	Glu	Lys	Asn	11 <i>e</i> ; 25	Ser	Val	Gln	Met	Thr 30	Ile	Ala
	Val	Gly	Thr 35	Arg	Met	Pro	Pro	Lys 40	Asn	Phe	Ser	Ara	Gly 45	Ser	Leu	Val
40			35	Arg Ile				40					45			
40 45	Phe	Val 50	35 Ser		Ser		Ile	40				Ile	45			
	Phe Leu 65	Val 50 Ile	35 Ser Phe	Ile	Ser Phe	Phe	Ile 55	40 Val	Leu			Ile	45			

	Gln	Arg	Arg 35	Leu	Gly	Asp	Ala	Ala 40	Lys	Lys	Alā	Ile	Ser 45	Lys	Leu	Thr	
5	Thr	Arg 50		Val	Lys	Lys	Gly 55	Asp	Lys	Glu							
10	(2)	INF	ORMA'	TICN	FOF:	SEQ	ID :	NC:	699:								
			(i)	(ENCI YPE:	H: 6 ami	6 ал no a	ino cid		s						
15			(xi)							EQ I	D NO	: 69	9:				
	Val 1	Lys	Lys	Gly	Asp 5	Lys	Glu	Thr	Asp	Pro 10	Asp	Phe	Asp	His	Cys 15	Ala	
20	Val	Cys	Ile	Glu 20	Ser	Tyr	Lys	Oln	Asn 25	Asp	Val	Val	Arg	Ile 30	Leu	Pro	
25	Cys	Lys	His 35	Val	Ph∈	His	Lys	Ser 40	Cy · s	Val	Asp	Pro	Trp 45	Leu	Ser	Glu	
	His	Cys 50	Thr	Cys	Pro	Met	Cys 55	Lys	Leu	Asn	Ile	Leu 60	Lys	Ala	Leu	Gly	
30	Ile 65	Val															
35	(2)	INE	ORMA	rion	FOR	SNQ	ID:	NO:	70(:								
			(i)			ENGT.	H: 1	06 a	mıno		ds						
40			(xi)		D) T UENC					EQ I	D NO	: 70	0 :				
	Met 1	Thr	His	Pro	Gly 5	Thr	Glu	His	Ile	Ile 10	Ala	Val	Met	Ile	Thr 15	Glu	
45	Leu	Arg	Gly	Lys 20	Asp	Ile	Leu	Ser	Tንፕ 25	Leu	Glu	Lys	Asn	Ile 30	Ser	Val	
50	Gln	Met	Thr 35	Ile	Ala	Val	Gly	Thr 40	Arg	Met	Pro	Pro	Lys 45	Asn	Phe	Ser	
50	Arg	Gly 50	Ser	Leu	Val	Phe	Val 55	Ser	Ile	Ser	Phe	Ile 60	Val	Leu	Met	Ile	
55	Ile 65	Ser	Ser	Ala	Trp	Leu 70	Ile	Phe	Тут	Phe	Ile 75	Gln	Lys	Ile	Arg	Tyr 80	
	Thr	Asn	Ala	Arg	Asp 85	Arg	Asn	Gln	Arg	Arg 90	Leu	Gly	Asp	Ala	Ala 95	Lys	
60	Lys	Ala	Ile	Ser	Lys	Leu	Thr	Thr	Arg	Thr							

				100					105							
5	(2)	INF	ORMA'	rion	FOR	SEQ	ID I	NO: 1	701:							
10				(A) L B) T D) T	ENGT YPE: OPOL	H: 8 ami CGY:	4 am no a lin	ino cid ear	acid		: 70	1:			
15	Ala 1	Ala	Lys	Lys	Ala 5	Hē	Ser	Lys	Leu	Thr 10	Thr	Arq	Thr	Val	Lys 15	Lys
	Gly	Asp	Lys	Glu 20	Thr	Asp	Pro	Asp	Phe 25	Asp	Ніз	Cys	Ala	Val 30	Cys	Ile
20	Glu	Ser	Tyr 35	Lys	Gln	Asn	Asp	Val 40	Val	Arg	Ile	Leu	Pro 45	Cys	Lys	His
	Val	Phe 50	His	Lys	Ser	Cys	Val 55	Asp	Pro	Trp	Leu	Ser 60	Glu	His	Cys	Thr
25	Суs 65	Pro	Met	Cys	Lys	Leu 70	Asn	He	Leu	Lys	Ala 75	Leu	Gly	Ile	Val	Pro 80
30	Asn	Leu	Pro	Cys												
	(2)	INFO	ofma	rion	FOR	SEQ	ID 1	40: ⁻	702:							
35				(A) L B) T D) T	ENGT YPE: OPOL	H: 8 ami OGY:	бат no a lin	ino cid ear	acid		: 70	2:			
40	Thr 1	Gln	Ala	Val	Asn 5	Arg	Arg	Ser	Ala	Leu 10	Gly	Узр	Len	Ala	Gly 15	Asp
45	Asn	Ser	Leu	Gly 20	Leu	Glu	Pro	Leu	Arlig 25	Thr	Ser	Gly	Ilo	Ser 30	Pro	Len
	Pro	Gln	Asp	Gly	Glu	Leu	Thr	Pro	Arg	Thr	Gly	Glu	Ile	Asn	Ile	Ala

40

50 55 60

Val Thr Lys Slu Trp Phe Ile Ile Ala Ser Phe Gly Leu Leu Ser Ala

	2 *	-21.5		:	. 7U3	: 23 <u>7</u>	⊃	101.1	J3:							
5			i,		JE (2) (2) 1	LENG: IYPE	M: :	341 a Lno a	umin: usid		Lda					
			иi		(D) ([UE2 K					EQ I	D 170): TO	3:			
10	Fro 1	Leu	. His	Gly	· Val		. Asp	His	Leu	: 31y 10		Агр	: Pro	. Glm	Thr	Arg
	Fne	Phe	· Val	Pro 20		Aen	. Ile	: Lys	Glm 25		Il÷	Ala	Leu	. Leu 30		Arg
15	9-3	1.ET.	Сув 38		Phe	Lys	Glu	. Lys 40		: Ser	Arg	i Alia	. Ala 45		His	Asn
20	Ala	T.E.1 5.0	Ala	Val	Val	Ile	Tyr 55		Asn	Lys	Ser	12ys 60		Glu	Pro	- Vāl
	7h <u>*</u> 65	M=.	Thx	His	P≖o	G.y		Glu	His	Il=	7.5		. Val	Met	Ile	Thr 80
25	Glu	leu	Arş	gly	1.yrs €5	ÀΞp	īle	leu	Ser	Ty≃ 90		Glu	Lys	Asn	Ile 95	
	Val	315	Met	Thr 190	Ile	Ala	Val	217	Thr 105		Met	Pro	320	Lys 110		Fhe
30			Gly. 115					120					125			
35	Ile	I1∈ 131	Ser	Ser	Ala	(dil	194 135		Ph∈	7)~	Poe	ile 140		lys	Ile	Arg
	145		Asti			150					155					160
40	173	Lys	Ala	Ile	Ser 165		leu	Thr	Thr	Arg 171	Thr	Val	Lys	Lys	Gly 175	Asp
			The	185					135					190		
45	रिश्व	Lys	GL- 195	Asn	ger.	val	Val	200	īls	Leu	Pro	Cys	Lys 205	Hıs	Val	Phe
50	His	Lys 210	Ser	Cys	Val	qEA	Pro 215	فتن	Leu	Ser	Glu	His 220	Cys	Thr	Cys	Pro
	Met 223	Суз	Lys	Leu	Asn	11e 230	Leu	Lys	Ala	Leu	Gly 235	Ile	Val	Pro	Asn	Leu 240
55	Pro	Суз	<u> Th-</u>	qzA	Asn 245	Val	Ala	Phe	Asp	Met 250	Glu	æg	Leu	Thr	Arg 255	Thr
	GLE.	Ala	٧al	Asn 260	32g	λrg	Ser	Ala	Leu 263	Gly	وت	Leu	Ala	Gly 270	Asp	Asn
60	Ser	Leu	Glv	Leu	Glu	250	Leu	Arm	ጥኮ፦	Sa-	919	- 7 6	Sar	2*0	Lov	Dro

			275					289					235			
5	Gln	Asp 290	Gly	Glu	Lou	Thr	Pro 295	Arg	Thr	Gly	Glu	Ile 300	Æm	Ilē	Ala	Val
<i>J</i>	Thr 305	Lys	Glu	Trp	Phe	Ile 310	Ile	Ala	Ser	Phe	31y 315	Leu	beu	Ser	Ala	Leu 320
10	Thr	Leu	Cys	Tyr	Met 325	Ile	Ile	Arg	Ala	Thr 330	Ala	Ser	Leu	Asn	Ala 335	Asn
	Glu	Val	Glu	Trp 340	Phe											
15																
	(2) INFORMATION FOR SEQ ID NO: 704: (i) SEQUENCE CHARACTERISTICS:															
20																
25	His 1	Gly	Val	Ala	Asp 5	His	Leu	Gly	Cys	Asp 10	Pro	Gln	Thr	Arg	Phe 15	Phe
30	Val	Pro	Pro	Asn 20	Ile	Lys	Gln	Trp	Ile 25	Ala	Leu	Leu	Gln	Arg 30	Gly	Asn
	Суз	Thr	Phe 35	Lys	Glu	Lys	Ile	Ser 40	Arg	Ala	Ala	Phe	His 45	Asn	Ala	Val
35	Ala	Val 50	Val	Ile	Tyr	Asn	Asn 55	Lys	Ser	Lys	Glu	Glu 60				
40	(2)	INF	ORMA'	rion	FOR	SEQ	ID	NC: '	705:							
45				((A) L B) T D) T	ENGT YPE : OFOL	H: 3 ami CCY:	no a lin	mino cid wear	: aci EQ I		·: 70	5 :			
	Met 1	Ser				Leu								Ala	Met 15	He
50	Cys	Ala	Ile	Ala 20	Ser	Gly	Ser	Glu	Leu 25		Glu	Ser	Ala	sú Epe	Gly	Tyr

Glu Gly Pro Gly Glu Gin Glu Thr Lyn Lâu Ang Leu Lie Jer Lyn Gly

	Glu	Glu	Pro	Arg	Ala 85		Lys	Glu	Glu	Ser 90		Val	Ser	Val	Ser 95	Asn
5	Ser	Gln	Pro	Thr 100		Glu	Ser	Hıs	Ser 105		Lys	Ala	Ile	Leu 110		Asn
10	Ile	Ser	Val 115		Ala	Phe	Ser	Val 120	Cys	Phe	Ile	Phe	Thr 125		Thr	Ile
	Gly	Met 130		Pro	Ala	Val	Thr 135	Val	Glu	Val	Lys	Ser 140	Ser	Ile	Ala	Gly
15	Ser 145	Ser	Thr	Trp	Glu	Arg 150	Tyr	Phe	Ile	Pro	Val 155	Ser	Cys	Phe	Leu	Thr 160
	Phe	Asn	Ile	Phe	Asp 165	Trp	Leu	Gly	Arg	Ser 170	Leu	Thr	Ala	Val	Phe 175	Met
20	Trp	Pro	Gly	Lys 180	Asp	Ser	Arg	Trp	Leu 185	Pro	Ser	Trp	Xaa	Leu 190	Ala	Arg
25	Leu	Val	Phe 195	Val	Pro	Leu	Leu	Leu 200	Leu	Cys	Asn	Ile	Lys 205	Pro	Arg	Arg
	Tyr	Leu 210	Thr	Val	Val	Phe	Glu 215	His	Asp	Ala	Trp	Phe 220	Ile	Phe	Phe	Met
30	Ala 225	Ala	Phe	Ala	Phe	Ser 230	Asn	Gly	Tyr	Leu	Ala 235	Ser	L∈u	Cys	Met	Cys 240
	Phe	Gly	Pro	Lys	Lys 245	Val	Lys	Pro	Ala	Glu 250	Ala	Glu	Thu	Ala	Glu 255	Pro
35	Ser	Trp	Pro	Ser 260	Ser	Cys	Val	Trp	Val 265	Trp	His	Trp	Gly	Leu 270	Phe	Ser
40	Pro	Ser	Cys 275	Ser	Gly	Gln	Leu	Cys 280	Asp	Lys	Gly	Trp	Thr 285	Glu	Gly	Leu
	Pro	Ala 290	Ser	Leu	Pro	Val	Cys 295	Leu	Leu	Pro	Leu	Pro 300	Ser	Ala	Arg	Gly
45	Asp 305	Pro	Glu	Trp	Ser	Gly 310	Gly	Phe	Phe	Phe						
	(2)	INFO	ORMAT	rion	FOR	SEO	ID V	10 - 7	106.							
50				SEQUE		CHAI	RACTI	ERIST	rics:		de					
55		,	(xi)	(1	B) T	YPE: OPOLO	amin OGY:	no ao line	cid ear			: 70 <i>6</i>	. .			
	Met 1											Ser		Ala		Ile
50		Ala	Ile	Ala		Gly	Ser	Glu	Leu		Glu	Ser	Ala	Phe	15 Glv	TVT

				20					25					30		
5	Phe	Ile	Thr 35	Ala	Cys	Ala	Va1	Ile 40	I les	Leu	Thr	Ile	Ile 45	Суз	Tyr	Leu
5	Gly	Leu 50	Pro	Arg	Lēu	Glu	Fhe SS	Tyr	Arg	Tyr	Tyr	Gln 60	Gln	Leu	Lys	Leu
10	Glu 65	Gly	Pro	Gly	Glu	Gln 70	Glu	Thr	Lys	Leu	Asp 75	Leu	Ile	Ser	Lys	Gly 90
	Glu	Glu	Pro	Arg	Ala 85	Gly	Lys	Glu	Glu	Ser 90	Gly	Val	Ser	Vāl	3er 95	Apn
15	Ser	Uln	Fro	Thr 100	Aan	Glu	Ser	His	Ser 105	Ile						
20	(2)	17.77	OPMAT	NCIT	FCR	JEQ	ID I	NÖ: 1	707:							
			(i)													
								iam noa		acid	S					
25			(x1)					lin Prio		FO T	סוא פ	- 70	·; .			
										_						
	Ser 1	Gly	Val	Ser	Val 5	Ser	Asn	Ser	Gln	Pro 10	Thr	Asn	Glu	Ser	His IS	Ser
30	T1.		2.1	T 3		,		. 1								
	116	гÀЗ	Ala	20	Leu	₽ÀЗ	Asn	ite	Ser 25	Val	Leu	Ala	Phe	Ser 30	Val	Суз
35	Phe	Ile	Phe 35	Thr	Ile	Thr	Ile	Gly 40	Met	Phe	Pro	Ala	Val 45	Thr	Val	Glu
	Val	Lys 50	Ser	Ser	Il⇔	Ala	Gły 55	Ser	Ser	Thr	Trp	Glu 60	Arg	Tyr	Phe	lle
40	Pro 65	Val	SAT	Cys	Pina	Leu 70	Thr	Phe	Asn	Ile	Phe 75	Asp	Trp	Leu	Gly	8() Yrd
	Sei															
45																
	(2)	IMF	ORMAT	LION	FCR	SEQ	1 CI	Ю: Т	708:							
50			(i) :	SEQU	ENCE	CHAI	ract:	ERI <i>G</i>	TICS	:						
				(A) L	ENGT	H: 9		ino	acid	S					
			ē.							:					. *	
	Al i	:::::::::::::::::::::::::::::::::::::::	30.3	-,-,-	Thr	Time	31.1	Art 1	75.11	Pho	11-	1,1,0	ve	Э.	1.1	Im⊢

	Leu	Thr	Phe 35		He	Phe	Asp	Trp 40		Gly	Arg	Ser	Leu 45		: Ala	n Val		
5	Phe	Met 50	Trp	Pro	Gly	Lys	Asp 55		Arg	Trp	Leu	Pro 60		Trp) Kaa	Leu		
10	Ala 65	Arg	Leu	Val	Phe	Val 70		Leu	Leu	Leu	Leu 75		Asn	Il∈	: Lys	Fro 80		
• •	Arg	Arg	Tyr	Leu	Thr 85		Va1	Fhe	Glu	His 90		Ala						
15	(2)	INF	ORMA	TION	FOR	SEQ	ID I	No: '	709:									
20				(A) I B) T D) T	ENGT YPE : OPOL	H: 7 ami OGY:	4 am no a lin	ino cid ear	acid		: 70	9:					
25	Phe 1	Gly	Pro	Lys	Lys 5	Val	Lys	Pro	Ala	Glu 10	Ala	Glu	Thr	Ala	Glu 15	Pro		
	Ser	Trp	Pro	Ser 20	Ser	Cys	Va1	Trp	Val 25	Trp	His	Trp	Gly	Leu 30	Phe	Ser		
30	Pro	Ser	Cys 35	Ser	Gly	Gln	Leu	Cys 40	Asp	Lys	Gly	Trp	Thr 45	Glu	Gly	Leu		
35	Pro	Ala 50	Ser	Leu	Pro	Val	Cys 55	Leu	Leu	Pro	Leu	Pro 60	Ser	Ala	Arg	Gly		
	Asp 65	Pro	Glu	Trp	Ser	Gly 70	Gly	Pne	Phe	Phe								
40	(2)	INFO	ORMAT	rion	FOR	SEQ	ID V	10: 7	710:									
45				(A) L B) T D) T	ENGT: YPE: OPOL	H: 1: amin OGY:	35 an no ao line	mino cid ear	aci		: 71(O :					
50	Asp 1	Asp	Asp	Gly	Phe 5	Glu	Ile	Val	Pro	Ile 10	Glu	Asp	Pro	Ala	Lys 15	His		
	Arg	Ile	Leu	Asp 20	Pro	Glu	Gly	Leu	Ala 25	Leu	Gly	Ala	Val	Ile 30	Ala	Ser		
55	Ser	Ly.s	Lys 35	Ala	Lys	Arg	Asp	Leu 40	Ile	Asp	Asn	Ser	Phe 45	Asn	Arg	Tyr	-	
60	Thr	Phe 50	Asn	Glu	Asp	Glu	Gly 55	Glu	Leu	Pro	Glu	Trp 60	Phe	Val	Gln	Glu		

	Glu 65	Lys	Gln	His	Arg	Ile 70	Arģ	Gln	Leu	Pro	Val 75	Gly	Lyr	Lys	Slu	Val 80
5	Glu	Ніз	Tyr	Arg	L;;s 85	Arg	Ttp	Arq	Glu	Ile 90	Asn	Ala	Arg	Fr	14.5 95	Хал
	Xaa	Xaa	Xaa	Хаа 100	Хаа	Хаа	Хаа	Xaa	Жаа 105	Xaa	Хаа	Хаа	Σάα	Xaa 110	Xaa	Xaa
10	Leu	Glu	Gln 115	Thr	Arg	Lys	Lys	Ala 120	Glu	Ala	Val	Val	Asn 135	Thr	Val	Asp
15	Ile	Жаа 130	Arg	Thr	Arg	Glu	Ser 135									
	(2)	ivie	DEWVJ	БÌОИ	FOR	abÕ	TD 1	10.	711 -							
20			(1)	(A) L E) T	ENGT YPE:	H: 5 ami	ERIS' O am no a lin	ino . cid		s					
25			(xi)							EQ I	OM O	: 71	1:			
	Asp 1	Asp	Asp	Gly	Phe 5	Glu	Ile	Val	Pro	Ile 10	Glu	Asp	Pro	Ala	Lys 15	His
30	Arg	Ile	Leu	Азр 20	Pro	Glu	Ġly	Leu	Ala 25	Leu	Gly	Ala	Val	11@ 30	Ala	Ser
	Ser	Lys	Lys 35	Ala	Lys	Arg	Asp	Lėu 40	Ile	Asp	Asn	Ber	Phe 45	Asn	Arg	Tyr
35	Thr	Phe 50														
40	(2)	INF	ORMAT	NOIS	FOR	SEQ	IDI	VO:	712:							
45			(xi)	(A) L E) T F) T	ENGT YPE: OPOL	H: T -ami CFF.	l am no a lin	ino cid ear	acid		: 71.	ü:			
50	Lys 1	Yra	Trp	Arg	G1u 5	He	Asn	Ala	Yrq	Pro 10	Ile	Хаа	Xaa	Хаа	Жаа 15	Xaa
	Хаа	Хаа	Маа	Maa ph	Хаа	Жаа	Kaa	Еза	Жаа Эл	Kaa	Хаа	Каа	Levi	Glu Av	Sln	Thr

Art Street

	(3)	INF	OPMA	TION	FOR	SEQ	ID	NO :	713:							
5			(i)	(A) I B) T	CHA LENGI TYPE:	H: 2 ami	216 a .no a	mine cid		ds					
			(xi)	SEQ	UENC	E DE	SCRI	PTIC	N: S	EQ I	D NO	: 71	3:			
)	Met 1	Ile	Lys	Asp	Lys 5		Arg	Ala	Arg	Thr	Ala	Leu	Thr	Ser	Ser 15	Gln
	Pro	Ala	Нтп	Leu 20	Cys	Pro	Glu	Asn	Pro 25	Leu	Leu	His	Leu	Lys 30	Ala	Ala
	Val	Lys	Glu 35	Lys	Lys	Arg	Asn	Lys 40	Lys	Lys	Lys	Thr	Ile 45	Gly	Ser	Pro
	Lys	Arg 50	Ile	Gln	Sor	Pro	Leu 55	Asn	Asn	Lys	Leu	Leu 60	Asn	Ser	Pro	Ala
	Lys 65	Thr	Letu	Pro	Glγ	Ala 70	Cys	Gly	Ser	Pro	Gln 75	Lys	Leu	Ile	Asp	Gly 80
	Phe	Leu	Lys	His	Glu E5	Gly	Pro	Pro	Ala	Glu 90	Lys	Pro	Leu	Glu	Glu 95	Leu
	Ser	Ala	Ser	Thr 100	Ser	Gly	Val	Pro	Gly 105	Leu	Ser	Ser	Lēu	Gln 110	Ser	Asp
	Pro	Ala	Gly 115	Cyc	Val	Arg	Pro	Pro 120	Ala	Pro	Asn	Leu	Ala 125	Gly	Ala	Val
	Glu	Phe 130	Asn	Asp	Vəl	Lys	Thr 135	Leu	Leu	Arg	Glu	Trp 140	Ile	Thr	Thr	Ile
	Ser 145	Asp	Pro	Met	Glu	Glu 150	Αέρ	Ile	Leu	Gln	Val 155	Val	Ļys	Tyr	Cys	Thr 160
	Asp	Leu	Ile	Glu	Glu 165	Lys	qzA	Leu	Glu	Lys 170	Leu	Asp	Leu	Val	Ile 175	Lys
	Tyr	Met	Lys	Arg 180	Leu	Met	Gln	Gln	Ser 185	Val	Glu	Ser	Val	Trp 190	Asn	Met
	Ala	Phe	Asp 195	Phe	Ile	Leu	Asp	Asn 200	Val	Gln	Val	Val	Leu 205	Gln	Gln	Thr
	Tyr	Gly 210	Ser	Thr	L€u	Lys	Val 215	Thr								
	(2)	INFO	ORMAT	rion	FOR	SEQ	ID N	10: 7	14:							
			(i) S	(1	A) L B) T	CHAI ENGTI YPE : OPOLA	H: 5: amin	2 am no a	ino a cid		3					

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 714:

 $N_{ij} = \{i, \dots, i_{n-1}, \dots, i_{n-1}, \dots, i_{n-1}\}$

	Met 1	Il∈	Lys	Asp	Lya 5	Gly	Arg	Ala	Arg	Thr 10	Ala	Leu	Thr	និសា	Ser 15	Gln
5	Pro	Ala	H13	Leu 20	Cys	Pro	Glu	Aon	Pro 25	Leu	Leu	His	L·u	Lyd 30	Ala	Аlэ
10	Val	Lys	Glu 35	Lys	Lys	Arg	Aon	Lys 40	Lys	Lys	Lys	Thr	Ile 45	Sly	rer	Pro
	Lys	Arg 50	Ile	Gln												
15	(2)	INFO	ORMA'	ricn	FOR	SEQ	ID 1	10: T	715							
20				(A) L B) T D) T	ENGT YPE: OPOL	H: 1 ami OGY:	EPIST 00 a no a lin PTICI	mino cid ear	acı		: 71	5 :			
25	Lys 1	Arg	Ile	Gln	Ser 5	Pro	Leu	Asn	Asn	Lys 10	Leu	Leu	Asn	Ser	Pro 15	Ala
	Lys	Thr	Leu	Pro 20	Gly	Ala	Cys	Gly	Ser 25	Pro	Gln	Lys	Leni	I 1-: 30	Asp	Gly
30	Phe	Leu	Lys 35	His	Glu	Gly	Pro	Pro 40	Ala	Glu	Lys	Pro	Leu 45	Glu	Glu	Leu
35	Ser	Ala 50		Thr	Ser	Gly	Va1 55	Fro	Gly	Leu	Ser	Ser 60	Leu	Sln	Şer	Asp
	65					70		Pro			75					80
40					Val 85	Lys	Thr	Leu	Leu	Arg 90	Glu	Trp	He	Thr	Thr 95	He
45	చల్కొ	Алр	iro.	190												
	(2)	IMF	ORMA	HC.TT	FOR	SEQ	ĮD I	NO: '	716:							
50			(i)	(A) L B) T	ENGT	H: 7	ERIS 4 am no a lin	ino cid		ls					
<i>.</i>	*****	::.:	7-4		Î?	311	٠	:	Argi	i	.1.	191	- "1	A. j		****

	Ile Lyo Tyr Met Lys Arg Leu Met Gln Gln Ser Val Glu Ser Val Trp 35 40 45
5	Ash Met Ala Phe Asp Phe Ile Leu Asp Ash Val Gln Val Val Leu Gln 50 55 60
	Gln Thr Tyr Gly Ser Thr Leu Lys Val Thr 65 70
10	
	(2) INFORMATION FOR SEQ ID NO: 717:
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 amino acids (B) TYPE: amino acid (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 717:
20	Phe Cys His Asp Cys Lys Phe Pro Glu Ala Ser Pro Ala Met Ash Cys
	1 5 10 15
	Glu Pro
25	
	(2) INFORMATION FOR SEQ ID NO: 718:
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 amino acids (F) TYPE: amino acid (D) POPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 718:
35	Phe Cys His Asp Cys Lys Phe Pro Glu Ala Ser Pro Ala Met Asn Cys
	1 5 10 15
O	Glu Pro
15	(2) INFORMATION FOR SEQ ID NO: 719:
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 27 amino acids (B) TYPE: amino acid (D) TOPOLOGY: linear
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 719:
	Pro Gln Pro Ser Asn Phe Pro Thr Thr Val Arg Asn Leu Pro Tyr Ser 1 5 10 15
55	Gly Ala Gly Ala Gln Pro Pro Pro Ser Asn Cys 20 25

 $60\,$ (2) information for SEQ ID NG: 720:

5				(A) L B) T D) T	CHAI ENGT YPE: OPOL E DE:	H: l ami OGY:	34 a no a lin	mino cid ear	aci		: 71	J.			
10	Met 1	Ala	Ser	Ser	Val 5	Pro	Ala	Gly	Gly	His 10	Thr	Ara	Ala	Gly	(31); 15	Ile
	Phe	Leu	Ile	Gly 20	Lys	Leu	quA	L+u	Glu 25	Ala	Ser	Leu	Phe	Lyn 50	Sor	Phe
15	Gln	Trp	Leu 35	Pro	Phe	Val	Leu	Arg 40	Lys	Lys	Суз	Asn	Phe 45	Phy	Ng	TTP
	Asp	Ser 50	Ser	Ala	His	Ser	Leu 55	Pro	Leu	His	Pro	Leu 60	Ser	Ala	Ser	Cys
20	Ser 65	Ala	Pro	Ala	Cys	His 70	Ala	Ser	Asp	Thr	His 75	Leu	Leu	làn	Pro	'Ser 80
25	Thr	Arg	Ala	Leu	Cys 85	Pro	Ser	Ile	Phe	Ala 90	Trp	Leu	Val	Ala	Pro 95	His
	Ser	Val	Phe	Arg 100	Thr	Asn	Ala	Pro	Gly 105	Pro	Thr	Pro	Ser	Ser 110	Gln	Ser
30	Ser	Pro	Val 115	Phe	Pro	Vāl	Phe	Pro 120	Val	Ser	Phe	Met	Ala 125	Leu	Ile	Val
35	Cys	Хаа 130	Leu	Val	Çye	Суз										
	(2)	INF	ORMA'	noin	FOE	SEQ	IĎ I	₩: 1	721:							
40				(A) L B) T D) T	CHAI ENGT YPE: OPOL E DE	H: 7 ami OGY:	l am no à lin	ino cid ear	acid		: 72	1:			
45	Met 1	Ala	Ser	Ser	Val	Pro	Ala	Gly	Gly	His	Thr	Arg	Ala	g.y	Gly 15	Ile
50	Phe	Leu	Ile	Gly 20	Lys	Leu	Asp	Leu	Glu 25	Ala	Ser	Leu	Phe	Lys 30	Ser	Phe
50	Gln	Trp	Leu 35	Pro	Phe	Vál	Leu	Arg 40	Lys	Lys	Cys	Aan	Fhe 45	Phy	Dya	Trp
	;	5.00		;		In.										

A A A A

	(2)	INF	O'RMA'	rion	FOR	SEQ	II)	MO: 1	722.							
5				(A) L B) T D) T	ENGT YPE: CPCL	H: 4 ami OGY:	6 am no a lin	ino cid ear	acid		: 72	2 :			
10	Phe 1	Ala	Trp	Leu	Val 5	Alε	Pro	His	Ser	Val	Phe	Arg	Thr	Asn	Ala 15	Pro
15	Gly	Pro	Thr	Pro 20	Ser	3et	Gln	Ser	Ser 25	Pro	Val	Phe	Pro	Val 30	Phe	Pro
12'	Val	Ser	Phe 35	Met	A.a	Leu	Ile	Vai 40	Cys	Каа	Leu	Val	Суз 45	Cys		
20	(2)	INF	ORMA	rich	FOR	SEIQ	ID I	VO: 5	723:							
25				(A) L E) T D) T	ENCT YPE: OPCL	H: 1 ami OGY:	34 a no a lin	mino cid ear	aci		: 72.	3 :			
30	Met 1	Ala	Ser	Ser	Vil 5	Pro	Ala	Gly	Gly	His 10	Thr	Arg	Ala	Gly	Gly 15	Ile
	Phe	Leu	Ile	G17 20	578	Leu	Asp	Leu	Glu 25	Ala	Ser	Leu	Phe	Lys 30	Ser	Phe
35	Gln	Trp	Leu 35	Pro	Phe	Val	Leu	Arg 4d	Lys	Lys	Cys	Asn	Phe 45	Phe	Cys	Trp
40	qzA	Ser 50	Ser	Ala	His	Ser	Leu 55	Pro	Leu	His	Pro	Leu 60	Ser	Ala	Ser	Cys
	Ser 65	Ala	Pro	Ala	Cys	His 70	Ala	Ser	Asp	Thr	His 75	Leu	Leu	Tyr	Pro	Ser 80
45	Thr	Arg	Ala	Leu	Cys 35		Ser		Phe			Leu	Val	Ala	Pro 95	His
	Ser	Val	Phe	Arg 100	Thr	Asn	Ala	Pro	Gly 105	Pro	Thr	Pro	Ser	Ser 110	Gln	Ser
50	Ser	Pro	Val 115	Phe	Pro	7al	Phe	Pro 120	Val	Ser	Phe	Met	Ala 125	Leu	Ile	Val
55	Cys	Xaa 130	Leu	Val	Cys	Суз										
	(2)	INF	DRMA'	ricn	FOR	SEQ	ID :	NO: 7	724:							
60			(i)	SEQUI	ENCE	CHA	RACT	ERI <i>S</i>	rīcs	:						

				(A) L	TUME.	H: 2	36 a	mine	aci	ds					
						YPE:										
			(OPOL				5 0 •		52.0				
5			(xi)	ಶಿಕ್ಷಾ	UENC	E DE	CKI	z"iliku).	N: D	EÇ 1	D NO	: /2	4:			
ν,	M⊌t 1	Ala	Met	Glu	Gly 5	Tyr	Trp	Arg	Phe	Leu 10	Ala	Leu	Leu	Gly	Ser 15	Ala
10	Leu	Leu	Val	Gly 20	Phe	Leu	Ser	Val	11e 25	Phe	Ala	Leu	Val	Trp 30	V.a l	Leu
	Ніз	Tyr	Arg 35	Glu	Gly	Leu	Gly	Trp 40	App	Gly	Ser	Ala	Leu 45	Olu	Fhe	Asn
15	Trp	His 50	Pro	Val	Leu	Met	Va1 55	Thr	Gly	Fhe	Val	Phe 60	Ile	Gln	Sly	He
20	Ala 65	Ile	Ile	Val	Tyr	Arg 70	Leu	Pro	Trp	Thr	Trp 75	Lys	Cys	Ser	Lys	Leu ਰਹ
	Leu	Met	Lys	Ser	Ile 85	His	Ala	Gly	Leu	Asn 90	Ala	Val	Ala	Ala	Ile 95	Leu
25	Ala	Ile	Ile	Ser 100	Val	Val	Ala	Val	Phe 105	Glu	Asn	His	Asn	Val 110	Asn	Asn
	Ile	Ala	Asn 115	Met	Pyr	Ser	Lēu	His 120	Ser	TIP	Val	Gly	Leu 125	Ile	Ala	Val
30	Ile	Cys 130	Tyr	Læu	Leu	Gln	Leu 135	Leu	Ser	Gly	Phe	Ser 140	Val	Phe	Leu	Leu
35	Pro 145	Trp	Ala	Fro	Leu	Ser 150	Leu	Arg	Ala	Phe	Leu 155	Met	Pro	fle	His	Val 160
	Tyr	Ser	Gly	Ile	Val 165	He	Phe	Gly	Thr	Val 170	Ile	Ala	Thr	Ala	Leu 175	Met
40	Gly	Leu	Thr	Glu 180	Lys	Leu	Ile	Phe	Ser 185	Leu	Arg	Asp	Pro	Ala 190	Tyr	Ser
	Thr	Pho	Pro 195	Pro	Glu	Gly	V.:1	Phe 200	Val	Aon	Thr	Leu	Gly 205	Leu	Leu	Ile
45	Leu	Val 210	Phe	Gly	Ala	Leu	Ilo 215	Phe	Tip	11-9	Val	Thr 220	Arg	Pro	Gln	Try

THE CONTRACT OF THE CONTRACT O

Lys Arg Pro Lys Glu Pro Ann Ser Thr Ile Leu His Pro Ann Gly Gly 225 230 230 235

Thr Glu Gln Gly Ala Arg Gly Ger Met Pro Ala Tyr Ser Gly Acn Asn 245 - 250 - 255 -

	1 42 /	1,111	CIUM	TIOIA	LOR	ಾದಲ್ಲ	111	170	740:							
5					(A) I (B) T (D) T	ENGT TYPE : TOPOL	CH: 4 : ami LOGY:	13 an ino a : lir	mino acid near	acio		_	_			
			(X1)	SEÇ	OENC	E DE	SCRI	FTIC	M: S	EQ I	D NC): 72	!5:			
10	Pro 1		Arg	Ala	Gly 5		Ser	Pro	Gly	Leu 10		Leu	Gln	Leu	Pro	Ala
15	Glu	Pro	Gly	His 20	Pro	Ala	Gly	Asn	Leu 25		Pro	Leu	Thr	Ser 30		Pro
	Gln	Pro	Leu 35		Arg	Ile	Pro	Ala 40		Pro	Gly					
20																
	(2)	INF	OFMA'	TION	FOR	SEQ	ID :	N O:	726:							
25				(A) I B) T D) T	ENGT YPE: OPOL	H: 4 ami CGY:	124 a no a lin	umino cid mear	aci		50				
			(XI)	SEQ	UENC	E DE	SCRI	PTIO	N:S	EQ I	D NO	: 72	6:			
30	Met 1	Lys	Leu	Leu	Gly 5	Glu	Cys	Ser	Ser	Ser 10	Ile	Asp	Ser	Val	Lys 15	_
	Leu	Glu	His	Lys 20	Leu	Lys	Glu	Glu	Glu 25	Glu	Ser	Leu	Pro	Gly 30		Val
35	Asn	Leu	His 35	Ser	Thr	Glu	Thr	Gln 40	Thr	Ala	Gly	Val	Ile 45	Asp	Arg	Trp
40	Glu	Leu 50	Leu	Gln	Ala	Gln	Ala 55	Leu	Ser	Lys	Glu	Leu 60	Arg	Met	Lys	Gln
	Asn 65	Leu	Gln	Lys	Trp	Gln 70	Gln	Phe	Asn	Ser	Asp 75	Leu	Asn	Ser	Ile	Trp 80
45	Ala	Trp	Leu	Gly	Asp 85	Thr	Glu	Glu	Glu	Leu 90	Glu	Gln	Leu	Gln	Arg 95	Leu
	Glu	Leu	Ser	Thr 100	Asp	Ile	Gln	Thr	Ile 105	Glu	Leu	Gln	Ile	Lys 110	Lys	Leu
50	Lys	Glu	Leu 115	Gln	Lys	Ala	Val	Asp 120	His	Arg	Lys	Ala	Ile 125	Ile	Leu	Ser
55	Ile	Asn 130	Leu	Cys	Ser	Pro	Glu 135	Phe	Thr	Gln	Ala	Asp 140	Ser	Lys	Glu	Ser
J.C.	Arg 145	Asp	Leu	Gln	Asp	Arg 150	Leu	Хаа	Gln	Met	Asn 155	Gly	Arg	Trp	Asp	Arg 160
60	Val	Cys	Ser	Leu	Leu 165	Glu	Glu	Trp	Arg	Gly 170	Leu	Leu	Gln	Asp	Ala	Leu

	Met	Gln	Cys	Gln 180	Gly	Phe	His	Glu	Met 185		His	Gly	' Leu	Leu 190		Met
5	Leu	Glu	Asn 195	Ile	Asp	Arg	Arg	Lys 200	Asn	Glu	Ile	Val	Pro 205		Asp	Ser
10	Asn	Leu 210	Asp	Aļa	Glu	Ile	Leu 215	Gln	Asp	His	His	Lys 220		. Leu	Met	Glm
	11e 225	Lys	His	Glu	Leu	Leu 230		Ser	Gln	Leu	Arg 235	Val	Ala	Ser	Leu	Gln 240
15	Asp	Met	Ser	Cys	Gln 245	Leu	Leu	Val	Asn	Ala 250	Glu	Gly	Thr	Asp	Cys 255	Leu
	Glu	Ala	Lys	Glu 260	Lys	Val	His	Val	Ile 265	Gly	Asn	Arg	Leu	Lys 270	Leu	Leu
20	Leu	Lys	Glu 275	Val	Ser	Arg	His	Ile 280	Lys	Glu	Leu	Glu	Lys 285	Leu	Leu	Asp
25	Val	Ser 290	Ser	Ser	Gln	Gln	Asp 295	Leu	Ser	Ser	Trp	Ser 300	Ser	Ala	Asp	Glu
	Leu 305	Asp	Thr	Ser	Gly	Ser 310	Val	Ser	Pro	Xaa	Ser 315	Gly	Arg	Ser	Thr	Pro 320
30	Asn	Arg	Gln	Lys	Thr 325	Pro	Arg	Gly	Lys	Суs 330	Ser	Leu	Ser	Gln	Pro 335	Gly
	Pro	Ser	Val	Ser 340	Ser	Pro	His	Ser	Arg 345	Ser	Thr	Lys	Gly	Gly 350	Ser	Asp
35	Ser	Ser	Leu 355	Ser	Glu	Pro	Xaa	Pro 360	Gly	Arg	Ser	Gly	Arg 365	Gly	Phe	Leu
40	Phe	Arg 370	Val	Leu	Arg	Ala	Ala 375	Leu	Pro	Leu	Gln	Leu 380	Leu	Leu	Leu	Leu
	Leu 385	Ile	Gly	Leu	Ala	Cys 390	Leu	Val	Pro	Met	Ser 395	Glu	Glu	Asp	Тут	Ser 400
45	Суз	Ala	Leu		Asn 405	Asn	Phe	Ala	Arg	Ser 410	Phe	His	Pro	Met	Leu 415	Arg
	Tyr	Thr		Gly 420	Pró	Pro	Pro	Leu								
50																
	(2)	INFO	RMAT	ION :	FOR	SEQ	ID N	0: 7	27 :							
55		(i) S					RIST .0 am			ls.					

	1				5					10					15	
5	Leu	Glu	His	Lys 20	Leu	Lys	Glu	Glu	Glu 25		Ser	Leu	Pro	Gly 30	Phe	Val
5	Asn	Leu	His 35	Ser	Thr	Glu	Thr	Gln 40	Thr	Ala	Gly	Val	11e 45	Asp	Arg	Trp
10	Glu ⁻	Leu 50	Leu	Gln	Ala	Gln	Ala 55	Leu	Ser	Lys	Glu	Leu 60	Arg	Met	Lys	Gln
	Asn 65	Leu	Gln	Lys	Trp	Gln 70	Gln	Phe	Asn	Ser	Asp 75	Leu	Asn	Ser	Ile	Trp 80
15	Ala	Trp	Leu	Gly	Asp 85	Thr	Glu	Glu	Glu	Leu 90	Glu	Gln	Leu	Gln	Arg 95	Leu
20	Glu	Leu	Ser	Thr 100	Asp	Ile	Gln	Thr	Ile 105	Glu	Leu	Gln	Ile	Lys 110		
	(2)	INFO	ORMAT	rion	FOR	SEO	I DI	WO: T	728:							
25	,			SEQUI	ENCE	СНА	RACT.	ERIS	rics	: aci	ds					
			(xi)	(в) т D) т	YPE: OPOL	ami OGY :	no a lin	cid ear			: 721	8:			
30	Lys 1	Leu	Lys	Glu	Leu 5	Gln	Lys	Ala	Val	Asp	His	Arg	Lys	Ala	Ile 15	Ile
35	Leu	Ser	Ile	Asn 20	Leu	Cys	Ser	Pro	Glu 25	Phe	Thr	Gln	Ala	Asp 30	Ser	Lys
	Glu	Ser	Arg 35	Asp	Leu	Gln	Asp	Arg 40	Leu	Xaa	Gln	Met	Asn 45	Gly	Arg	Trp
40	Asp	Arg 50	Val	Cys	Ser	Leu	Leu 55	Glu	Glu	Trp	Arg	Gly 60	Leu	Leu	Gln	Asp
45	Ala 65	Leu	Met	Gln	Cys	Gln 70	Gly	Phe	His	Glu	Met 75	Ser	His	Gly	Leu	Leu 80
13	Leu	Met	Leu	Glu	Asn 85	Ile	Asp	Arg	Arg	Lys 90	Asn	Glu	Ile	Val	Pro 95	Ile
50	Asp	Ser	Asn	Leu 100	Asp	Ala	Glu	Ile	Leu 105	Gln	qzA	His	His	Lys 110	Gln	Leu
	Met.	Gln	Ile 115	Lys	His	Glu	Leu	Leu 120	Glu	Ser	Gln	Leu	Arg 125	Val	Ala	Ser
55	Leu	Gln 130	Asp	Met	Ser	Cys	Gln 135	Leu								

5				(A) L B) T D) T	ENGT: YPE: CPOL	H: 1 ami: OGY:	05 ar no ao line	mino cid ear	aci		: 729	Ð:			
10	Gln 1	Asp	Met	S⊬r	Cys 5	Gln	Leu	Leu	Val	Asn 10	Ala	Glu	Gly	Thr	Asp 15	Сув
	Leu	Glu	Ala	Lys 20	Glu	Lys	Val	His	Val 25	Ile	Gly	Asn	Arg	Leu 30	Lys	Leu
15	Leu	Leti	Lys 35	Glu	Val	ॐल r	Arg	His 40	Ile	Lys	Glu	Leu	G1u 45	Lys	Leu	Leu
	Asp	Va I 50	Ser	Ser	Ser	Gln	Gln 55	Asp	Leu	Ser	Ser	Trp 60	Ser	Ser	Ala	Asp
20	31u 65	Leu	Asp	Thr	Ser	Gly 70	Ser	Val	Ser	Pro	Xaa 75	Ser	Gly	Yrg	Ser	Thr 80
25	Pro	Asn	Arg	Gln	Lys 85	Thr	Pro	Arq	Gly	Lys 90	Cys	Ser	Leu	Ser	Gln 95	Pro
	Gly	Pro	Ser	Val 100	Ser	Ser	Pro	His	Ser 105							
30	(2)	INF		rion SEQU												
35				(A) L B) T D) T	ENGT YPE: OPOL	H: 7 ami CGY:	3 am no a lin	ino cid ear	acid		: 73	0:			
40	Asp 1	Ser	Ser	Leu	Ser 5	Glu	Pro	Хаа	Pro	Gly 10	Arg	Ser	Gly	Arg	Gly 15	Phe
	Leu	Pho	Arg	Val 20	I.eu	Ara	Ala	Ala	Leu 25	Pro	Leu	Gln	Leu	Leu 30	Leu	Leu
45	Leu	Iperti	11e 35	Gly	Leu	Ala	⊖уз	Leni 40	Val	Prò	Mat	Ser	Glu 45	Glu	Азр	Tyre
50	Ser	Суз 50		Leu	Ser	Asn	λsn 55	Phe	Ala	Arg	Ser	Phe 60	His	Pro	Met	Leu
	Arg 65	Tyr	Thr	Asm	Gly	Pro 70	Pro	Pro	Leu							

). LEIGHBURH RAFARTERICTI). TAN LERWYTH: So Lerino Wills TBN TYPE: amino moid

(D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 731: Met Lys Leu Leu Ile Cys Gly Asn Tyr Leu Ala Pro Ser His Ser Glu 5 Ser Ser Arg Arg Cys Cys Leu Leu Cys Phe Tyr Pro Leu Cys Leu Glu 20 25 10 Ile Asn Phe Gly Met Lys Val Phe Leu Ser Met Pro Phe Leu Val Leu 40 Phe Gln Ser Leu Ile Gln Glu Asp 1.5 (2) INFORMATION FOR SEQ ID NO: 732: 20 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 271 amino acids (B) TYPE: aminc acid (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 732: 25 Arg Ile Leu Leu Val Lys Tyr Ser Ala Asn Glu Glu Asn Lys Tyr Asp 10 Tyr Leu Pro Thr Thr Val Asn Val Cys Ser Glu Leu Val Lys Leu Val 30 2.0 Phe Cys Val Leu Val Ser Phe Cys Val Ile Lys Lys Asp His Gln Ser -10 35 Arg Asn Leu Lys Tyr Ala Ser Trp Lys Glu Phe Ser Asp Phe Met Lys Trp Ser Ile Pro Ala Phe Leu Tyr Phe Leu Asp Asn Leu Ile Val Phe 40 Tyr Val Leu Ser Tyr Leu Gln Pro Ala Met Ala Val Ile Phe Ser Asn Phe Ser Ile Ile Thr Thr Ala Leu Leu Phe Arg Ile Val Leu Lys Xaa 45 105 Arg Leu Asn Trp Ile Gln Trp Ala Ser Leu Leu Thr Leu Phe Leu Ser 115 120 50 Ile Val Ala Leu Thr Ala Gly Thr Lys Thr Leu Gln His Asn Leu Ala 135 140 Gly Arg Gly Phe His His Asp Ala Phe Phe Ser Pro Ser Asn Ser Cys 155 160 55 Leu Leu Phe Arg Asn Glu Cys Pro Arg Lys Asp Asn Cys Thr Ala Lys 170 Glu Trp Thr Phe Pro Glu Ala Lys Trp Asn Thr Thr Ala Arg Val Phe 60

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XX
AC
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XX
SV
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XX
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09-MAR-2000 (Rel. 63, Last updated, Version 3)
DT
DT
XX
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DE
DE
     mRNA sequence.
XX
KW
     EST.
XX
OS
     Homo sapiens (human)
     Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia;
OC
OC
     Eutheria; Primates; Catarrhini; Hominidae; Homo.
XX
RN
     [1]
RP
     1-375
RA
     NCI-CGAP;
     "National Cancer Institute, Cancer Genome Anatomy Project (CGAP), Tumor
RT
RT
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RL
     Unpublished.
XX
DR
     RZPD; IMAGp9981205706; IMAGp9981205706.
XX
     Contact. Robert Strausberg, Ph.D.
CC
CC
     Tel: (301) 496-1550
CC
     Email: Robert_Strausberg@nih.gov
     This clone is available royalty-free through LLNL; contact the
CC
     IMAGE Consortium (info@image.llnl.gov) for further information.
CC
CC
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                          Std Error: 0.00
CC
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XX
FH
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FT
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FT
                      modified polylinker; Site_1: Not I; Site_2: Eco RI; Equal
FT
                      amounts of plasmid DNA from three normalized libraries
FT
                      (fetal lung NbHL19W, testis NHT, and B-cell NCI_CGAP_GCB1)
                      were mixed, and ss circles were made in vitro. Following
FT
FT
                      HAP purification, this DNA was used as tracer in a
FT
                      subtractive hybridization reaction. The driver was
FT
                      PCR-amplified cDNAs from pools of 5,000 clones made from
                      the same 3 libraries. The pools consisted of I.M.A.G.E. clones 297480-302087, 682632-687239, 726408-728711, and
FT
FT
FT
                      729096-731399. Subtraction by Bento Soares and M. Fatima
FT
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FT
FT
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                      /clone lib="Soares_NFL_T_GBC_S1"
FT
FT
                      /lab host="DH10B"
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                                                                                  120
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                                                                                  180
     gagaggteeg tggegetgag ggggtgagga agtgeettgg etgetteeae agegtgaagg
                                                                                  240
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                                                                                  300
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